DAEWOO

Service Manual

Window Type
Room Air Conditioner

Model: DWB-180CH-R
DWB-240CH-R
DWA-181CH
DWA-186CH
DWA-240CH-R
DWA-246CH-R

✔ Caution

: In this Manual, some parts can be changed for improving, their performance without notice in the parts list. So, if you need the latest parts information,please refer to PPL(Parts Price List) in Service Information Center (http://svc.dwe.co.kr).

DAEWOO ELECTRONICS CORP.

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1. PRECAUTION

Please observe the following instructions.

1. Turn off unit.
- Make sure the unit is OFF and the AC cord is unplugged before repairing or servicing.

2. In case of checking the circuit unavoidably while the unit is connected with power source, be careful not to connect with the part of electric charge.
- You may cause electric shock.

3. Use of proper part if you need to replace the part, be sure to use genuine part of servicing model.
- Do not repair or replace the electric contact part.
  Consumer must not repair the unit, because it is dangerous.

4. Use of proper tool.
- You must use the proper tool to repair the unit, and use the measuring appliance adjusted accurately.

5. Damage of electric wire and power cord when servicing.
- Check electric wire and a surely replace a damage electric wire and a damage power cord.

6. Never use connecting the middle of wire, after cutting the middle of wire.
- It may cause a fire and trouble.

7. Checking the insulation resistance.
- After you complete the assembly of unit, surely check the insulation resistance.
  Confirm that the insulation resistance of the power line and the ground terminal is over 30MΩ by measuring insulation resistance.

8. Checking the ground.
After checking the ground, servicing it completely.

9. Checking the installation.
- After checking the installation, servicing it completely.

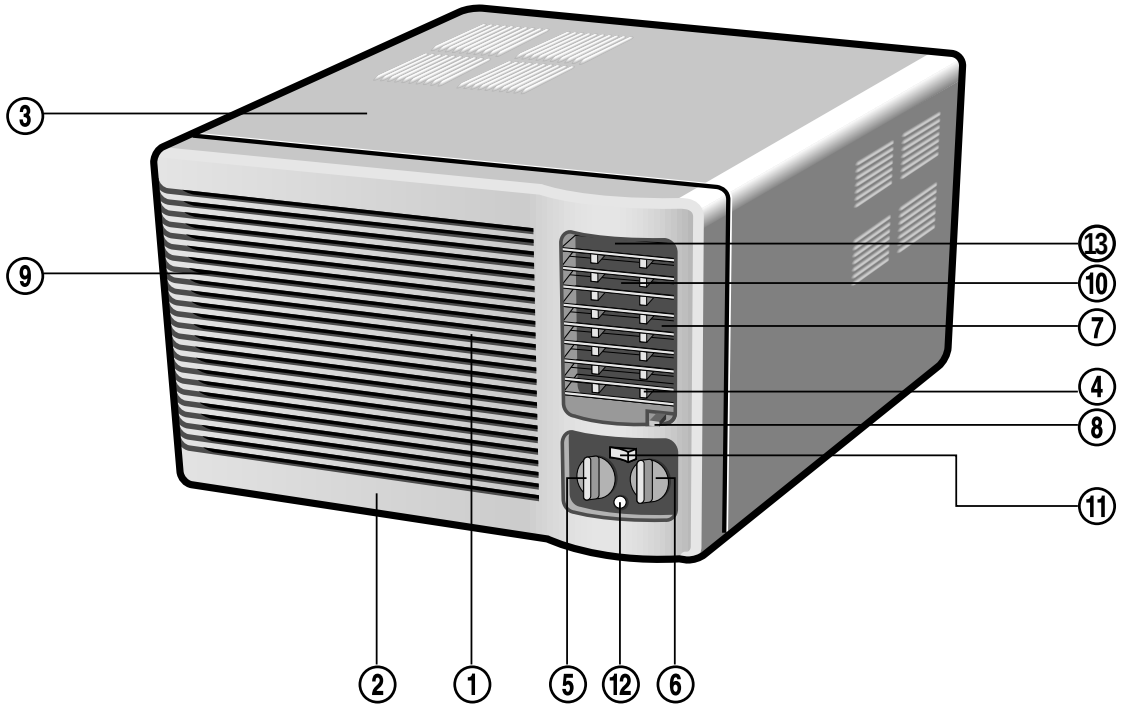
10. Care children.
- When servicing, do not make the children approach the air-conditioner.

2. GENERAL SPECIFICATIONS

ITEM \ MODEL			DWA-181CH	DWA-186CH	DWA-240CH-R	DWA-246CH-R	DWB-180CH-R	DWB-240CH-R
Power Source		V/Hz	AC 220V/60Hz				AC 220-240V/50Hz	
Capacity (Cooling & Heating)		Btu/h	18,000		24,000		18,000	24,000
		Kcal/h	4,536		6,048		4,536	6,048
Dehumidification		L/h	2.3		3.0		2.1	
Electricl Data	Power Input	Cooling	2,100		2,700		2,240	2,750
		Heating	1,800		2,300		1,880	2,350
	Power Input	Cooling	11.0		12.5		10.4	13.4
		Heating	10.0		10.5		8.8	11.4
Compressor		Type	Rotary		Recipro			
		Model	RCA180H001(DAEWOO)		AWG-5524EXN(TECUMSEH)		H2EB243ABKC(BRISTOL)	H2EB283ABKC(BRISTOL)
		Capacitor	30μF/400 VAC		35μF/400 VAC			40μF/370 VAC
		Overload Protector	KA-122-LHCNOOK(YAMADA)		Internal Type			
Fan Motor		Model	A2941GA011(D.M.I)				AM12DWD08(D.M.I)	A2945CA011(D.M.I)
		Capacitor	7.5μF/400VAC					
		Indoor-Fan	Blower-Fan					
		Outdoor-Fan	Propeller-Fan					
Refrigerant(R-22)		Control	Capillary					
		Capillary Tube	ø1.4 x L600 x 2		ø1.6 x L800 x 2		ø1.4 x L800 x 2	ø1.6 x L1000 x 2
		Amount	1,200		1,100		1,230	1,080
Dimensions		Unit(WxHxD)	660 x 430 x 705 (mm)					
		Packing(WxHxD)	711 x 525 x 757 (mm)					
Weight		Net Weight	55.5		65		65	67
		Gross Weight	60		69.5		69	71.5

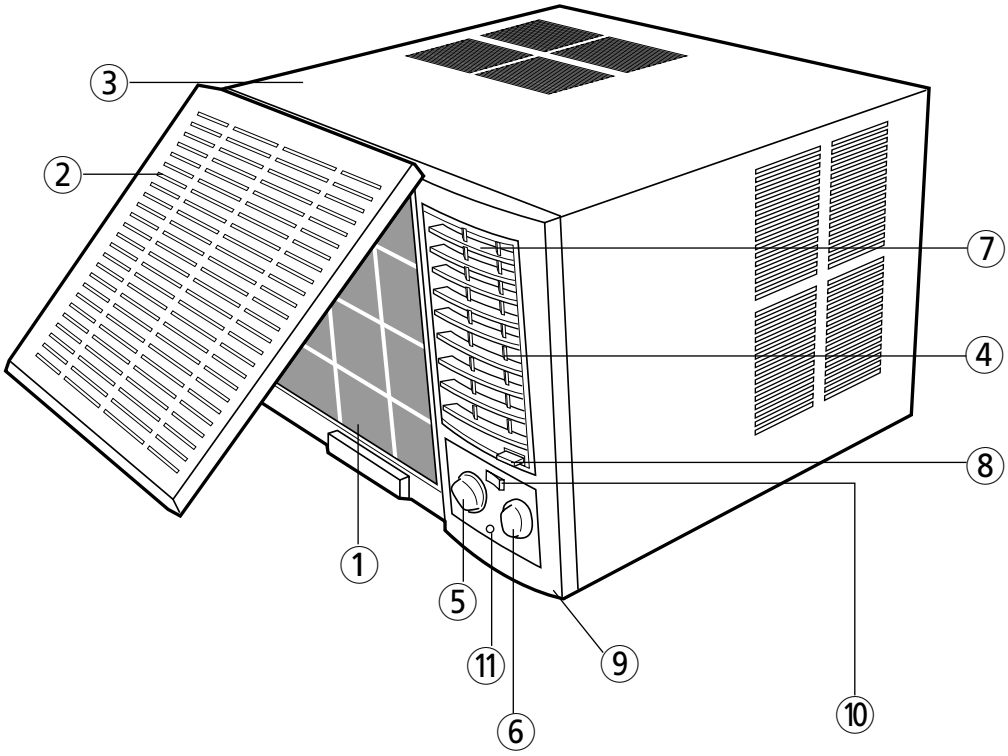
3.NAMES OF MAJOR COMPONENTS

• DWA-181CH/DWA-240CH-R/DWB-180CH-R/DWB-240CH-R



NO	PART NAME	NO	PART NAME
1	AIR FILTER	8	AIR VENT
2	GRILLE FRONT	9	AIR INTAKE
3	CABINET	10	AIR DISCHARGE
4	BLADE VERTICAL	11	AUTO SWING SWITCH
5	KNOB THERMOSTAT	12	HEATER LAMP
6	KNOB SELECTOR	13	CABINET DRAIN (Attached inside of Grille Front)
7	BLADE HORIZONTAL		

• DWA-186CH/DWA-246CH-R



NO	PART NAME	NO	PART NAME
1	AIR FILTER	7	BLADE HORIZONTAL
2	INLET GRILLE	8	AIR VENT
3	CABINET	9	GRILLE FRONT
4	BLADE VERTICAL	10	AUTO SWING SWITCH
5	KNOB THERMOSTAT	11	HEATER LAMP
6	KNOB SELECTOR		

4. FUNCTION OF MAIN COMPONENTS

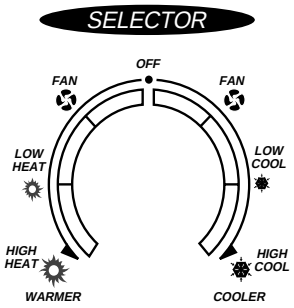
• DWA-181CH/DWA-240CH-R/DWB-180CH-R/DWB-240CH-R

> ⚠**NOTE**
>
> **• ECONOMICAL AND COMFORTABLE USE**
>
> 1. Properly control the room temperature.
> 2. Avoid being exposed to direct sunlight.
>   Keep direct sunlight from the room
> 3. Prevent the wind from entering the room.

• FAN & COOLING CONTROL

The Fan Control Selector Switch has six positions.
Choose one of the speed settings by rotating the fan control Selector Switch to the appropriate position

> ⚠**CAUTION**
>
> When the air conditioner has been performing its cooling operation and is turned “OFF” or set to the ‘FAN” position, wait at least 3 minutes before resetting to the cooling operation.



OFF	Select this setting for stop all operation of air conditioner
FAN	Select this setting for low speed air circulation without cooling and heating.
LOW COOL	Select this setting for cooling operation with LOW FAN.
HIGH COOL	Select this setting for cooling operation with HIGH FAN.
LOW HEAT	Select this setting for Heating operation with LOW FAN.
HIGH HEAT	Select this setting for Heating operation with HIGH FAN.

• TEMPERATURE CONTROL

Choose a temperature settings by rotating the knob of thermostat to the appropriate position

- The Thermostat automatically starts and stops operation in order to keep the room temperature at a proper level, and this results in efficient use of power and economical cooling.
- Turn clockwise for a cooler room temperature.
- Turn counter-clockwise for a warmer room temperature.

• HEATER LAMP

When the unit sets heating operation condition, the red lamp is lighted.
When the frost settles on the heat exchanger of the outside, defrosting is made automatically and the red lamp is turned off.
The unit may give a hiss and the fan motor stops for 1 to 10 minutes.
This should not be regarded as a problem.
After defrosting, the heating operation begins again.

• DWA-186CH/DWA-246CH-R

⚠**NOTE**

• FOR MOST ECONOMICAL USE

1. Properly control the room temperature.
2. Avoid the unit being exposed to direct sunlight. Keep direct sunlight from the room.
3. Prevent the wind from entering the room.

• FAN & COOLING CONTROL

The Fan Control Selector Switch has six positions.
Choose one of the speed settings by rotating the fan control Selector Switch to the appropriate position

⚠**CAUTION**

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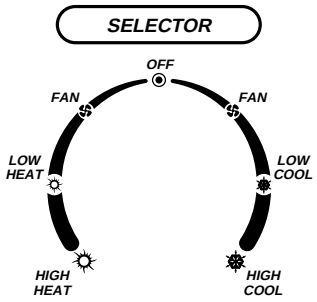

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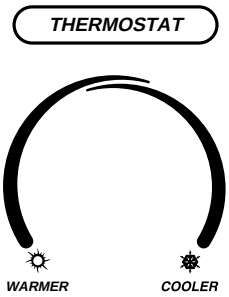

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After defrosting, the heating operation begins again.

• MOTOR

The motor is used to rotate the indoor and outdoor fan so that the room air can be recirculated.

> ⚠**CAUTION**
> In order to After Service convenience that the motor is common parts with Cooling only model, (This part is not use of medium speed function so that the lead wire's receptacle is taping)
> Because of the motor supplies of having a lead wire's receptacle when Heat Pump model's After Service that it is necessary to taping of lead-wire.

• FAN MOTOR

– BLOWER FAN : The Blower draws hot air from the room through the Evaporator and then discharges it back into the cool air. It circulates the room air.

– PROPELLER FAN: The Propeller draws outdoor air through louvering and cools Condenser, and then blows the hot air out.

* Heating condition is in opposition.

• CAPACITOR

The Capacitor enlarges the difference of phase between main coil so that the Compressor and Fan Motor starts well.

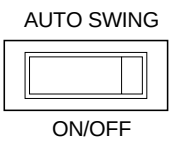
• ACCUMULATOR

The Accumulator blocks the unflow of liquid refrigerant and impurities into the Compressor.

5. GENERAL INFORMATIONS

• CHANGING AIR FLOW DIRECTION

Air flow deflectors divert air from center flow to left or right and up or down.
Adjust deflectors for desired air flow pattern.
AUTO SWING



When the auto louver switch is turned to “ON” position, the vertical louvers automatically move right and left.
Thus, you can obtain comfortable cooling.
The vertical louvers may be stopped at any position when the auto louver switch is turned off.

• AUTO SWING

The switch of auto swing operating is linked with the power source.
ON: Air swing is operated while SELECTOR knob is set the COOL/HEAT or FAN position.
OFF: Stop the operation of air swing.

• AIR FLOW AROUND UNIT

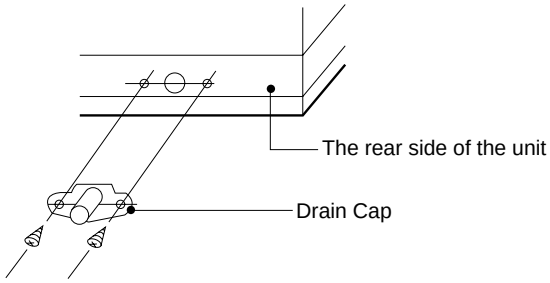
Check indoor grille and outdoor louvers for air flow obstructions. Do not block air flow to and from unit. The outdoor coil should be checked and periodically cleaned for debris that may collect and block unit air flow. If air flow is obstructed or deflected back into unit, the compressor may cycle on and off rapidly, causing early compressor failure.

• DRAIN HOLE AND WATER DRIPPING OUTSIDE

Locate drain hole at the rear or on the bottom of unit. Water in base pan is picked up by the fan blade and thrown onto the warm outdoor coil where it evaporates. The air conditioner must be installed level or tilted slightly to the outside for proper water disposal. On exceptionally hot and humid days the air conditioner may permit excess water to pass thru rear drain hole or overflow. This should be considered normal.

• HOW TO INSTALL THE DRAIN CAP

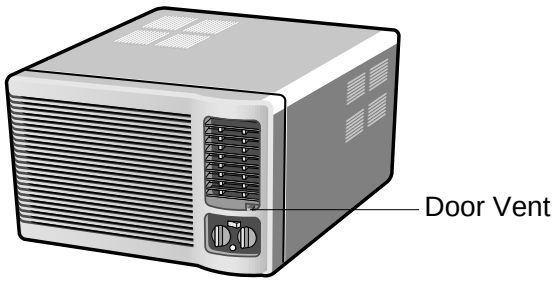
This drain cap is not attached the rear the unit at the factory.
If you want to install the drain cap, please install the drain cap like Fig. of the drain cap.
There are two kinds of method to install the drain cap.
The first method is that the shape of hole like
It is good for the household.
The second method is that the shape of hole is like
It is good for the shop.



• DOOR VENT

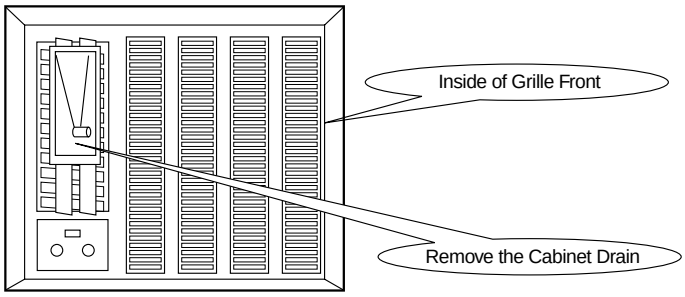
The door vent for the room air ventilation is lever type.
If the door vent lever moves to the left, then close the vent and moves to the rght, then open the vent.

CLOSE ← VENT → OPEN



⚠CAUTION

1. Remove “the Grille Front” from the unit.
2. Find “the Cabinet Drain” which is attached on rear side of “the Grille Front”.
   - If you don’t remove it. the unit cannot be operated normally.
3. Assemble “the Cabinet Drain” according to the instruction of page 5
   - “How to attach cabinet drain”



• HOW TO ATTACH CABINET DRAIN

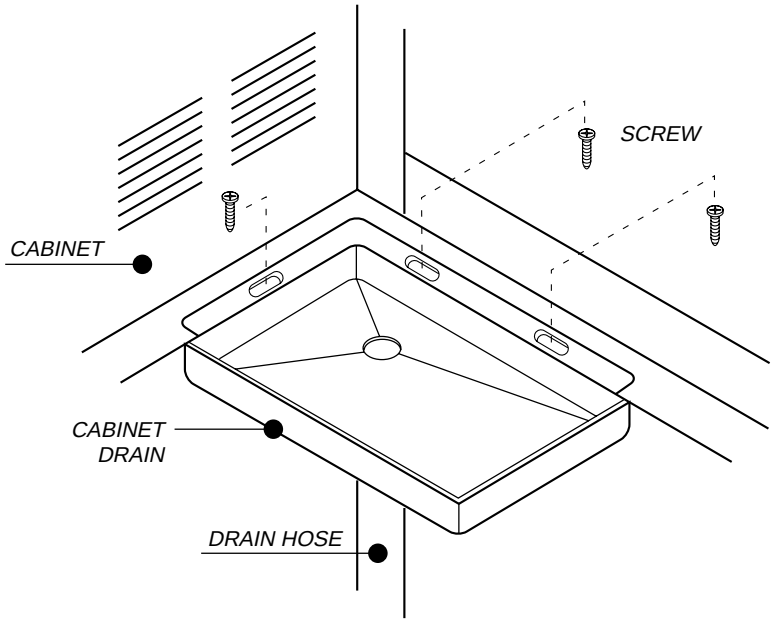
The air conditioner employs a proper drain method whereby the condensed water (moisture removed from the air) is drained to the outside.
In very humid weather, excessive condensate water removed from the air may cause some water to collect. To remove this excess water you can install the cabinet drain as detailed below.

1. Take the cabinet drain which is located in the upper styrofoam pad.

2. Remove the hole rubber from the base pan bottom hole.

3. Install the cabinet drain to the left corner of the cabinet with 3 screws.

4. Connect the drain hose to the outlet located at the bottom of the cabinet drain.
   You can purchase the drain hose or tubing locally to satisfy your particular needs.
   (Drain hose is not supplied)



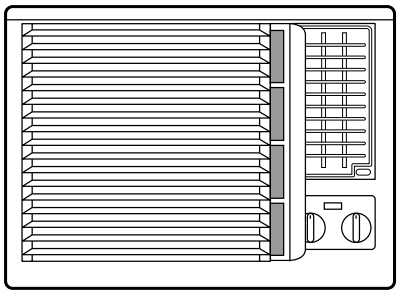
6. CARE AND MAINTENANCE

• DWA-181CH/DWA-240CH-R/DWB-180CH-R/DWB-240CH-R

⚠CAUTION

To avoid death of personal injury due to electrical shock, turn fan control OFF and unplug power cord before cleaning or performing maintenance. After cleaning or performing maintenance, reconnect power.

• AIR FILTER

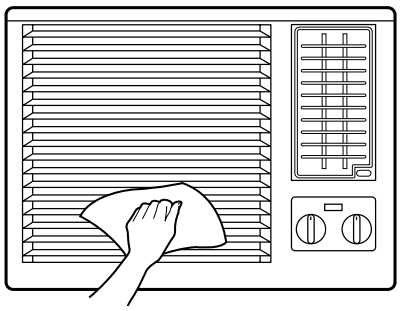


Clean the air filter, which removes dust inside the room.
It should be washed at least once every week during operation.
1. Remove the Air Filter from the front grille by pulling up.
2. Clean Air Filter with a vacuum cleaner or lukewarm, soapy water.
3. Shake it when clean to remove moisture completely. Replace it.

NOTE

A dirty Air Filter reduces air flow and the cooling capacity.
Do not operate unit without Air Filter.

• CLEANING THE AIR CONDITIONER



1. At least once a year, remove cabinet and thoroughly clean air conditioner. Have the unit inspected by an authorized service man to ensure unit is functioning properly.
2. Wash air conditioner with lukewarm, soapy water as needed. Rinse and dry thoroghly.
3. If using concentrated liquid detergent, dilute in warm water first.
4. Front grille may be wiped off with a cloth dampened in a mild detergent solution.
5. Cabinet may be washed with mild soap or detergent and lukewarm water, then polished with liquid wax for appliances.
6. Condenser and Evaporator coils should be cleaned at the beginning of each cooling season. Use a soft brush or vacuum cleaner to clean them, making sure that the Condenser and Evaporator coils are not damaged.
7. Do not use abrasive cleaners. These items scrach, crack and discolor surfaces.

NOTE

To assure continued peak efficiency, condenser coils (weather side of unit) should be checked periodically and cleaned if clogged with soot or dirt from the atmosphere.

• DWA-186CH/DWA-246CH-R

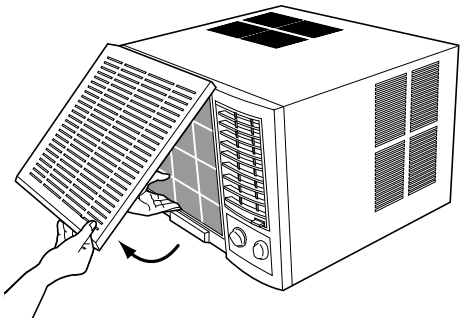
⚠CAUTION

To avoid death of personal injury due to electrical shock, turn fan control OFF and unplug power cord before cleaning or performing maintenance. After cleaning or performing maintenance, reconnect power.

• AIR FILTER

Clean the air filter, which removes dust inside the room.
It should be washed at least once every week during operation.

1. Open the inlet grille upward by pulling out the bottom of the inlet grille, lift it.
2. Using the tab, pull up slightly on the filter to release it and pull it down.
3. Clean Air Filter with a vacuum cleaner or lukewarm, soapy water.
4. Shake it when clean to remove moisture completely. Reinstall.



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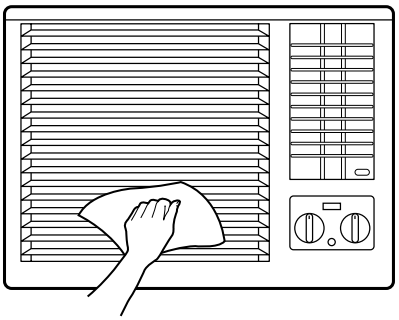

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7. Do not use abrasive cleaners. These items scrach, crack and discolor surfaces.

NOTE

To assure continued peak efficiency, condenser coils (weather side of unit) should be checked periodically and cleaned if clogged with soot or dirt from the atmosphere.

7. ELECTRICAL REQUIREMENTS

• ELECTRICAL GROUNDING INSTRUCTIONS

This appliance is equipped with a three-prong(grounding) plug for protection against possible shock hazards. If a two-prong wall receptacle is encountered, the customer is required to contact a qualified electrician and have the two-prong wall receptacle replaced with a properly grounded three-prong wall receptacle in accordance with the National Electrical Code.

⚠**WARNING :**

To avoid death, personal injury or properly damage due to electrical shock, this unit must be grounded.
Do not under any circumstances cut or remove the round grounding prong from the plug.
Do not use a two prong adapter.

• USE OF EXTENSION CORD

Because of potential safety hazards under a certain condition we strongly recommend against the use of an extension cord. However, if you still elect to use an extension cord, it is absolutely necessary that it is earthed and the marked rating of the extension cord should be AWG #12
The socket-outlet shall be installed near the equipment and shall be easily accessible.

⚠**WARNING :**

To avoid death, personal injury or properly damage due to electrical shock, do not use an extension cord or pinch the power cord.
Do not remove the warning tag from the power cord.

• REPLACEMENT OF SUPPLY FLEXIBLE CORD.

It the supply flexible cord is damaged, it must be replaced by the manufacturer or its service agent or similarly qualified person in order to avoid a hazard.

8. DESCRITION OF FUNCTIONS

• COOLING OPERATION

If the rotary switch is turned to “COOL”, the unit starts to cooling operation.
The power is not supplied to the de-ice controller P.C.B(Deicer PCB) in this mode.
The fan motor is “ON” when rotary switch is turned to “COOL” because RL1(on the P.C.B) is normally close.

• HEATING OPERATION

If the rotary switch is turned to “HEAT”, the unit starts to heating operation.
The power is supplied to the de-ice controller P.C.B in this mode.
Fan motor, Reversing valve, Lamp, (Heater sump), these parts go on just turnning the rotary switch to “HEAT” because RL1 is normally close.
The de-ice mode of heating operation is follows below.

• DE-ICE OPERATION

When the power is supplied by the turnning rotary switch to “HEAT”, the micro-computer chip(on the P.C.B) starts to check the time and temperature.

Entering de-ice operation(to turn cooling cycle).

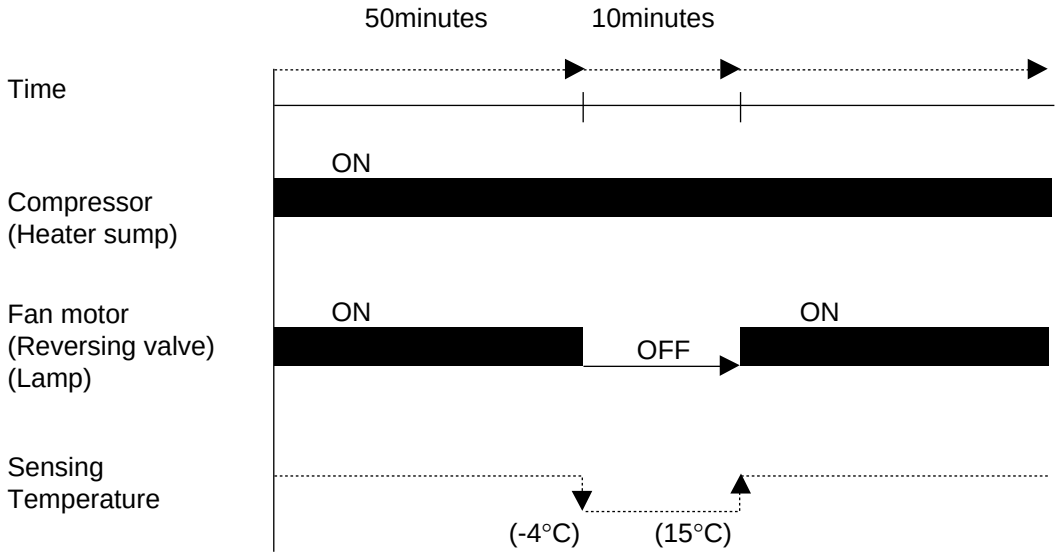
1. The micro-computer chip is check the temperature of condensor, After 50 minutes since the units starts on heating mode.
2. If the Temperature is below -4˚C, RL1 goes on.
3. Then, all parts of concerning with RL1 go off also, such as Fan motor, Lamp, Reversing valve.
4. Now, the unit turned to cooling operation but fan motor is off.

Back to heat mode.

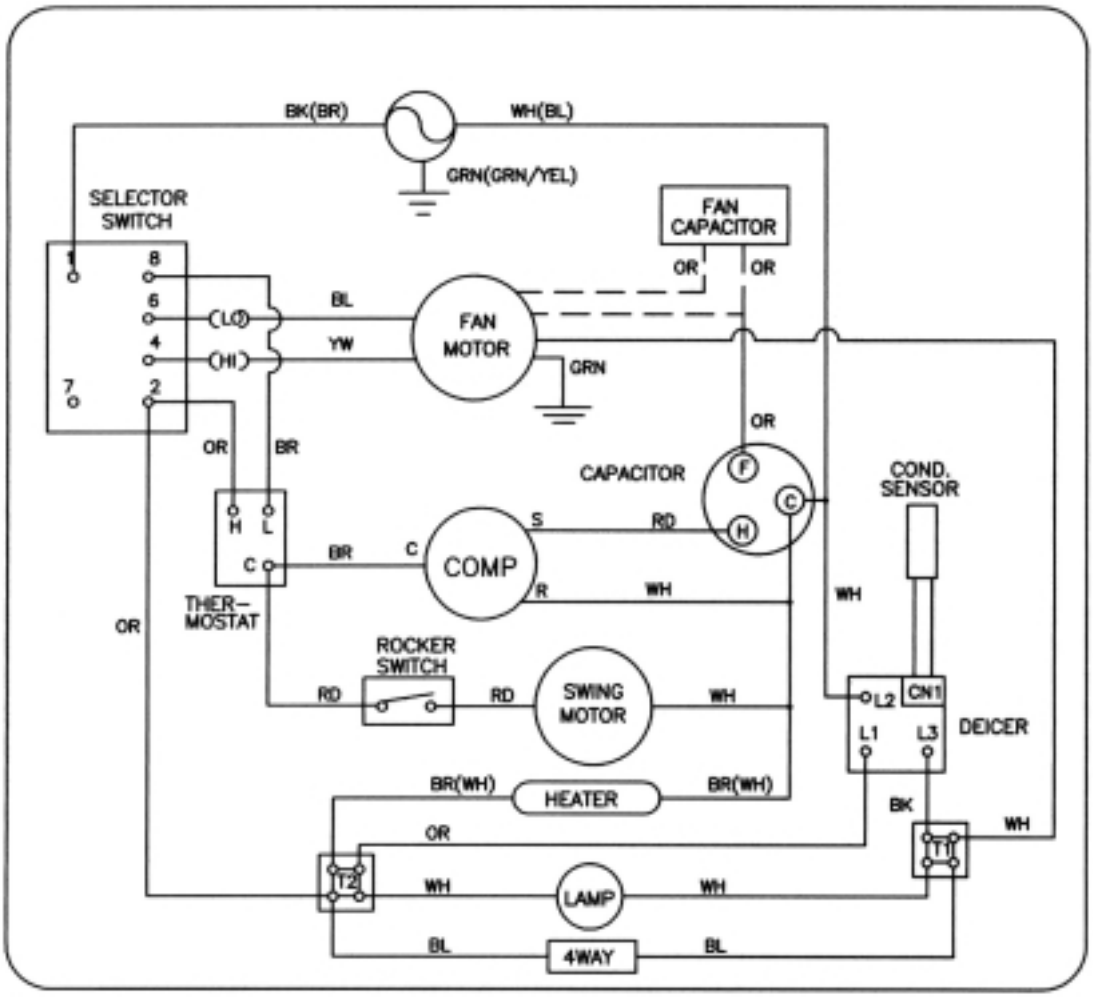
1. On the de-ice operation if the temperature is going over 15˚C, RL1 goes off.
2. Or 10minutes passed on the de-ice operation, RL1 goes off also.
3. Now the unit turned to heating mode because RL1 off means all parts turned on also.

such as Fan motor, Reversing valve, Lamp.

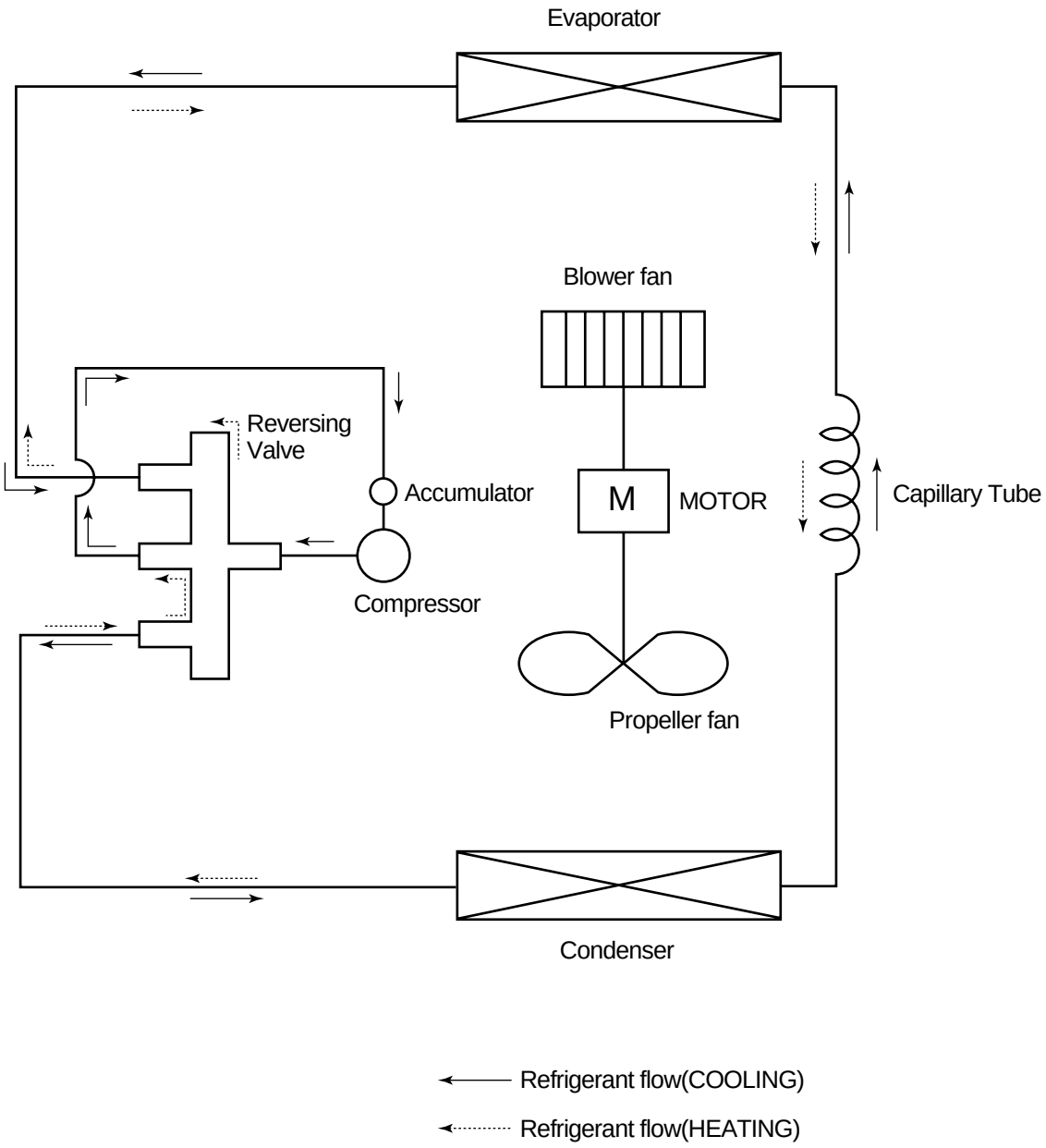
Remark : This de-ice operation is always repeat in heating mode when satisfying of the condition to enter the de-ice operation.



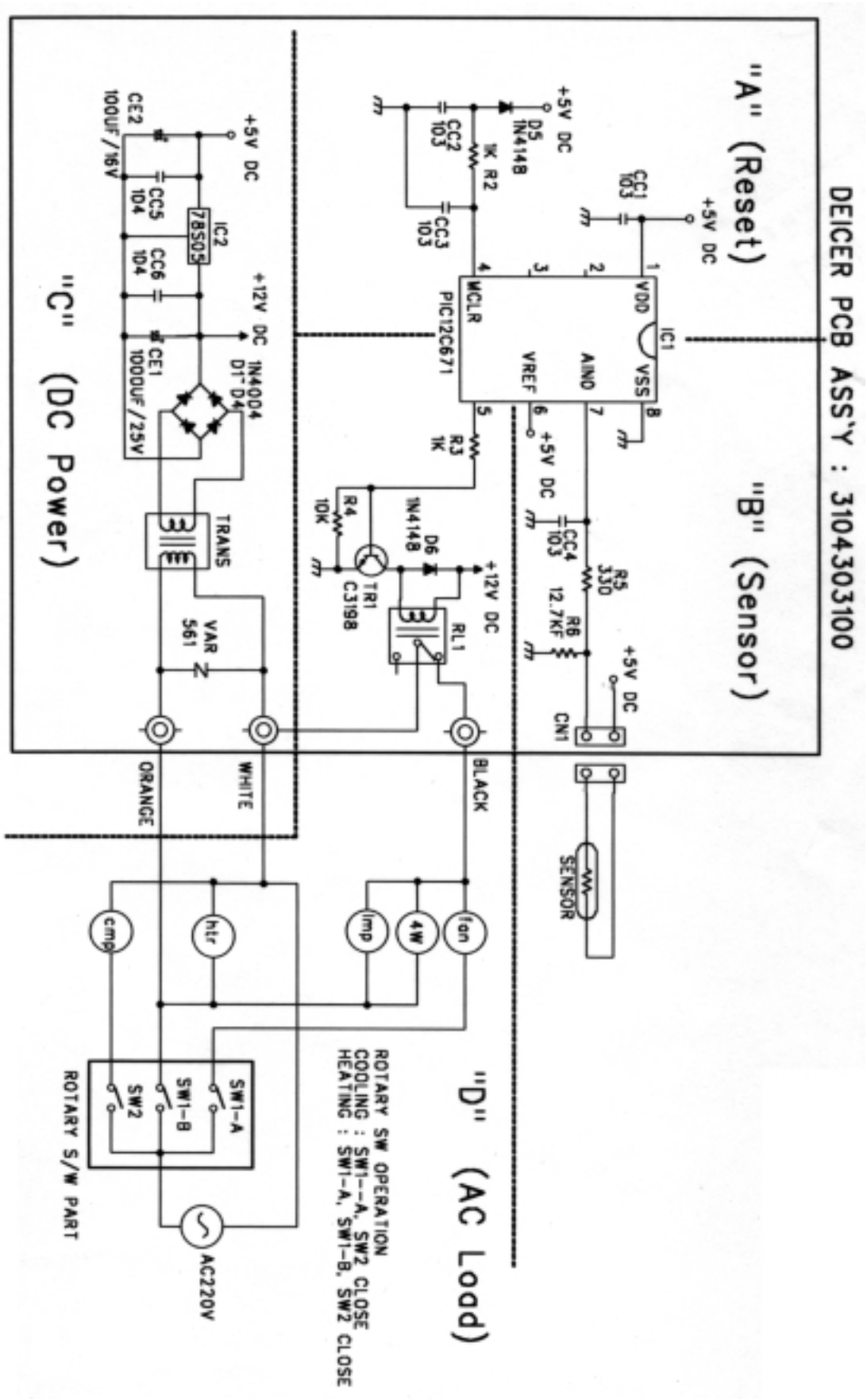
9. WIRING DIAGRAM



10. REFRIGERANT CYCLE



11. PCB DRIVING DESCRIPTION



1. DC POWER SUPPLY

Refer to “C” (DC Power) in the circuit diagram

DC Voltages is needs +12[V] and +5[V].
DC +12[V] is used for relay control, and DC +5[V] is used for the micro-computer. and the peripheral hardware in the P.C.B.
DC +5[V] is regulated y IC2(7805S).
CE1, CE2, CC6, CC5 designed for voltage regulation or noise filtering.

2. RESET

Refer to “A” (reset) in the circuit diagram.
Number 4 (IC1) is used for reset the micro-computer when the power is on or off.

3. SENSOR VALUE INPUT

Refer to “B” (Sensor) in the circuit diagram.

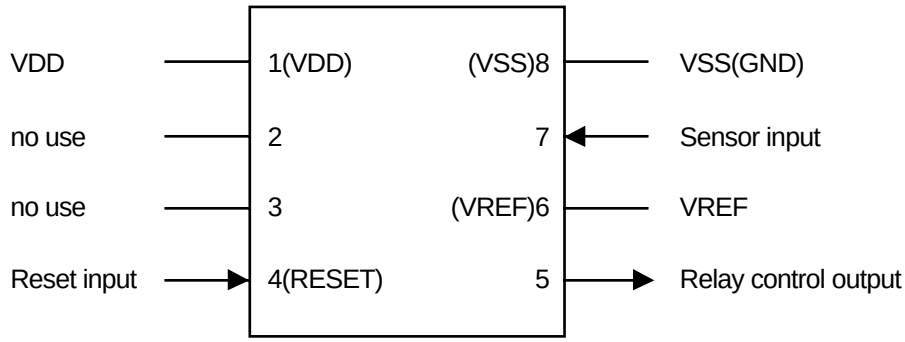
Number 7 (IC1) is used for reading the value of the sensor.
Temperature is read on voltage instead of the resistance of the sensor.

4. AC LOAD CONTROL

Refer to “D” (AC Load) in the circuit diagram.

Nuber 5 (IC1) is used for control the relay(RL1).
RL1 controls Reversing valve, Lamp or Fan motor.

MICOM PIN ASSIGNMENT



PIC12C671

12. TROUBLE SHOOTING GUIDE

TROUBLE	SITUATION	ANALYSIS	CAUSE	REMEDY
Fan motor and compressor do not run	1. Power failure	1) Power plug 2) Circuit breaker	1) Power failure 2) Circuit breaker is tripped 3) Power plug is not contacting	●Consult your electric company ● In case of a breaker, turn it on and off a few times ●Replace the power plug
	2. Power is supplied, but the equipment does not run	1) receptacle 2) Operation switch 3) Cord or lead wire to the switch	●Disconnection ●Mechanical failure of switch 1) Disconnection 2) Malfunction of contact	●Repair or replace the receptacle ●Replace the cord or lead wire
Switch is in “cool” position but the compressor does not run	1. Not operating at all	1) Compressor 2) Thermostat 3) Selector switch 4) O.L.P 5) Capacitor	●Disconnection or burned-out 1) Failure 2) Malfunction 3) Knob is not set to the proper setting ●Failure of malfunction of proper setting 1) Turn over ●Lack of capacity ●Disconnection	●Replace the compressor or connection wire ●Replace ●Repair or replace ●Turn knob for cooler setting ●Repair or replace the swtting ●Wait until return it. ●Replace ●Repair
	2. Compressor	1) Electricity 2) Room temperature and outside temperature 3) Compressor 4) O.L.P 5) Capacitor	1) The voltage exceeded allowed range 2) Capacity of wire is not sufficient ●Extremely high ●Burned-out ●Malfunction ●Lack of capacity	●Consult your electric company ●Check the capacity of wire ●Ventilate well and remove the heat source ●Replace ●Replace ●Replace
	3. Frequent start and stop	1) Thermostat 2) Capacitor 3) O.L.P	●Malfunction ●Lack of capacity ●Turn over	●Replace ●Replace ●Wait until return it.

TROUBLE	SITUATION	ANALYSIS	CAUSE	REMEDY
The compressor runs but the motor doesn't run		1) Fan 2) Fan motor 3) Capacitor 4) Fan motor circuit	●Blocked by others ●Disconnection or burned-out electric cord ●Failure malfunction of contact ●Disconnection of malfunction of contact	●Repair ●Replace the fan motor ●Replace ●Check the circuit
Both fan motor and compressor are running but cooling is bad	Not cooling at all	Refrigerant system	1) Refrigerant system is choked 2) Compressor failure 3) Leakage of refrigerant gas	●Repair ●Repair ●Recharge refrigerant gas
	Insufficient cooling	1) Refrigerant system 2) Filter 3) Heat exchanger of condenser	1) Refrigerant system is choked 2) Compressor failure 3) Leakage of refrigerant gas 4) Refrigerant charge is too high ●Clogged up with dust 1) Fin is cogged up with dust 2) The ventilation is not good 3) The unit is exposed to the sunlight 4) Other heat source is added in the room	●Check and repair refrigerant system ●Replace ●Check a part of Leakage and repair ●Repair and recharge ●Clean the air fiter ●Clean the unit ●Shade the unit from the sunlight ●Remove the added heat source
Vibration & Noise		1) Installation place 2) Fan 3) Fixing screws 4) Electric components	●Installation of the unit is imperfectly done 1) Fan is contacted with obstacles 2) Fixing bolt ●Have a screw loose ●Electrical noise	●Install the unit perfectly ●Remove obstacles ●Tighten the bolt ●Tighten the screw ●Exchange the components
Water leakage into room		●Installation condition	●The front is lower than rear side	●Make rear side of the unit lower than the front
Electric shock (Leakage of current)		●Insulation of components	1)Insulation defect of wiring and lead wire 2) Leakgae of current due to the dew or rust	●Check the unit's Leakage of current. ●Replace the defective parts or components

TROUBLE SHOOTING

If you find the ice on the outdoor side, please check the P.C.B as following.

1) P.C. B test function.

1) Remove the sensor connector from the P.C.B.
2) Supply the power
3) Short the sensor connector (pin 1 and 3 of CN1) for 3 seconds over.
4) If the relay(RL1) is on and off just one time, the P.C.B. is regard of correct.
5) Connect the sensor to the P.C.B. again.

2) R-T TABLE OF SENSOR.

TEMP(°C)	R(KOhm)	Voltage(V)	TEMP(°C)	R(KOhm)	Voltage(V)
-5	43.67	1.117	6	24.52	1.696
-4	41.35	1.165	7	23.31	1.753
-3	39.18	1.213	8	22.18	1.811
-2	37.13	1.264	9	21.11	1.868
-1	35.21	1.315	10	20.11	1.926
0	33.4	1.368	11	19.14	1.984
1	31.69	1.421	12	18.23	2.043
2	30.08	1.474	13	17.38	2.101
3	28.57	1.529	14	16.56	2.16
4	27.14	1.584	15	15.81	2.218
5	25.79	1.641	16	15.07	2.277

3) RELAY CHECK
If the resistance is “zero” between the two pin L1 and L3, the relay(RL1) is O.K.
(The check must be conducted after the power supply cord is removed.)

4) If the P.C.B, Sensor, Relay are correct all, please check the other parts.

13. HOW TO DISASSEMBLE

• DWA-181CH/DWA-240CH-R/DWB-180CH-R/DWB-240CH-R

Please refer to the chapter 14 (Exploded diagram and parts list).

1	Before service of any part.	1. Stop the unit, remove the power cord from the receptacles. 2. Move the unit to the safe location for the suitable work.
2	Ass'y Fan Motor - Fan Motor - Propeller Fan - Blower Fan	1. Remove Front Grille - Remove Filter Pre. - Remove screw(2 point) in Front Grille. 2. Remove Cabinet from the unit. - Remove screws (4 point) from the unit's sides. 3. Remove Holder Scroll. 4. Remove Scroll upper 5. Remove Ass'y Control Box - Remove screws (4 point). - Remove wires in the each components. 6. Remove wires in the Panel Housing. 7. Remove screws (4 point) from Ass'y Fan Motor's sides. - Ass'y Fan Motor is assembly of Fan Motor, Propeller and Blower Fan, Orifice and Panel Housing. 8. Lift the Ass'y Fan Motor from the unit. - Remove screws (7 point) 9. Remove Clip Fan (2 point) from the shaft of Fan Motor. 10. Remove Propeller Fan from the shaft of Fan Motor. 11. Remove Blower Fan from the shaft of Fan Motor. 12. Remove Fan Motor from Panel Housing. - Remove screws (4 point).
3	Ass'y Control Box - Rotary Switch (selector) - Auto Louver Switch. - Thermostat - Capacitor - Power Cord	1. Same as the procedure 1 to 5 in the Item 2.

• DWA-186CH/DWA-246CH-R

Please refer to the chapter 14 (Exploded diagram and parts list).

1	Before service of any part.	1. Stop the unit, remove the power cord from the receptacles. 2. Move the unit to the safe location for the suitable work.
2	Ass'y Fan Motor - Fan Motor - Propeller Fan - Blower Fan	1. Remove Front Grille - Open the grille upward by pulling out the bottom of the grille, lift it. - Remove screw which fasten Frame Grille with driver. - Pull knobs out of the control. (when the knobs are too tight to release, leave them.) - Disassemble Frame Grille from chassis. 2. Remove the unit from Cabinet. - Remove screws (2 point) from the unit's sides. - Pull the unit from cabinet. 3. Remove Holder Scroll. 4. Remove Scroll upper 5. Remove Ass'y Control Box - Remove screws (4 point). - Remove wires in the each components. 6. Remove wires in the Panel Housing. 7. Remove screws (4 point) from Ass'y Fan Motor's sides. - Ass'y Fan Motor is assembly of Fan Motor, Propeller and Blower Fan, Orifice and Panel Housing. 8. Lift the Ass'y Fan Motor from the unit. 9. Remove Clip Fan (2 point) from the shaft of Fan Motor. 10. Remove Propeller Fan from the shaft of Fan Motor. 11. Remove Blower Fan from the shaft of Fan Motor. 12. Remove Fan Motor from Panel Housing. - Remove screws (4 point).
3	Ass'y Control Box - Rotary Switch (selector) - Auto Louver Switch. - Thermostat - Capacitor - Power Cord	1. Same as the procedure 1 to 5 in the Item 2.

14. EXPLODED DIAGRAM AND PARTS LIST.

■ DWA-181CH PARTS LIST

No.	CODE	COMPONENTS	Q'TY	SPECIFICATION	REMARK
1	3100066241	ASS'Y PAN BASE	1	DWA-181CH LIQUID-INJ H/P	
2	3106003110	COMP BOLT	3	M8*L46.5(OD 10)	
3	3100002900	ASS'Y SEAL CAP DRAIN	1	SEAL C/DRAIN ASSY	
4	3106600910	SCROLL LOWER	1	EPS H/P	
5	3106700400	CAM	1	POM	
6	3104600110	RING VENT	1	NBR P6	
7	3101700300	LEVER VENT	1	PP(LG, H-540)	
8	3100066510	ASS'Y EVAPORATOR	1	DWB-180CH-R, 4R-4C, H/P, 1.8	
9	3100074001	AS PIPE EVA OUT	1	DWB-180CH-R, H/P	
10	3100074101	AS PIPE EVA IN	1	DWB-180CH-R, H/P	
11	3100073020	AS PIPE CAPILLARY	1	DWA-181CH, H/P	
12	3100073910	AS PIPE 4-WAY	1	DWA-181CH H/P	
13	3106600810	SCROLL UPPER	1	EPS H/P	
14	3100091720	COMPRESSOR	1	RCA180H001 INJ+HP	
15	7400208412	WASHER PLAIN	3	ID 8.4 * OD 26 * T1.6	
16	7392800011	NUT HEX	3	M8*P1.25 MFZN	
17		GROMMET	3	EPDM	COMP ACCESSORY PART
18		GASKET	1	SILICON	COMP ACCESSORY PART
19		COVER TERMINAL	1		COMP ACCESSORY PART
20	3112709700	HARNESS COMP	1	1 #14 AWG+#22 AWG UL1015	
21	3107000500	FAN CLIP	2	SK-5	
22	3101802800	FAN BLOWER	1	ABS(ABS-730)	
23	3104202301	PANEL HOUSING	1	SGCC T1.0 DWB-180C	
24	7112401211	SCREW TAPPING	3	T1 TRS 4*12 MFZN	
25	3101406502	COVER SCROLL	1	SGCC T0.6	
26	3101406601	COVER SIDE	1	SGCC T0.6	
27	3108005670	MOTOR FAN	1	A2941GA011(D.M.I)	
28	3100701500	BUSHING GUIDE	1	NBR	
29	7S432X5121	SPECIAL SCREW	4	TT3 HEX 5X12 STAR MFZN	
30	3110096200	ASS'Y COVER ORIFICE	1	DWB-180C-R	
31	3103800500	LOCK WIRE-STANDOFF	2	DAWS 116	
32	3101802900	FAN PROPELLER	1	ABS+GF20% (PIE 8.0)	
33	3100058250	ASS'Y CABINET WL	1	DWB-184C-R	
34	3108505301	SEAL CABINET TOP(F)	1	F-US+660*T5*50	
35	3108505360	SEAL CABINET TOP(R)	1	F-US+660*T5*110	
36	3108505501	SEAL CABINET SIDE(R)	1	F-US+130*T10*370	
37	3108505401	SEAL CABINET SIDE(L)	1	F-US+200*T10*370	
38	3108505600	SEAL COND TOP	1	F-US+70*T5*560	
39	3100066320	ASS'Y CONDENSER	1	DWA-181CH 3R-2C H/P FLAT	
40	3100070811	AS PIPE COND IN	1	DWB-180CH-R H/P	

✔ **Caution**: In this Service Manual, some parts can be changed for improving, their performance without notice in the parts list. So, if you need the latest parts information, please refer to PPL(Parts Price List) in Service information Center(http://svc.dwe.co.kr)

No.	CODE	COMPONENTS	Q'TY	SPECIFICATION	REMARK
41	3100070911	AS PIPE COND OUT	1	DWB-180CH-R H/P	
42	3100079400	ASSY SOLENOID COIL	1	DWB-180CH-R	
43	3100074620	AS PIPE DISCHARGE	1	DWA-181CH JAKA H/P	
44	3100074520	AS PIPE SUCTION	1	DWA-181CH JAKA H/P	
45	3100067900	ASS'Y GRILLE FRONT	1	DWB-180C-R	
	3100072500	AS SEAL G/FRONT(2)	1	DWA-240C-R D/GRY	
46	3108505230	SEAL GRILLE FRONT(3)	1	F-PE	
47	3106502201	BLADE VERTICAL	1	HIPS(HI-450) 18K,24K	
48	3106502100	BLADE HORIZENTAL	2	PP(LG, H-540)	
49	3101902201	FILTER PRE	1	HIPS+MESH #PP32	
50	7112401211	SCREW TAPPING	2	T1 TRS 4*12 MFZN	
51	3101600800	DECO FRONT	1	T0.4 (2D0)BASIC	
52	3100509221	BOX CONTROL	1	SGCC T0.8 HEAT PUMP TYPE	
53	5S10405110	SWITCH ROTARY	1	SRB 417-2D D/S	
54	7001400611	SCREW MACHINE	2	PAN 4X6 MFZN	
55	5SM0101910	THERMOSTAT	1	BU-AS224 DAESUNG	
56	7001400611	SCREW MACHINE	2	PAN 4X6 MFZN	
57	3966031000	SWING MOTOR	1	200/220V 50/60HZ(DS-090R)	
58	7112400811	SCREW TAPPING	2	T1 TRS 4*8 MFZN	
59	3109504900	CAPACITOR	1	7.5+30 µF 400VAC D63(SH)	
60	3101200600	CLAMP CAPACITOR	1	SECC T1.0 OD50	
61	7122401011	SCREW TAPTITE	1	T1 TRS 4*10	
62	3101300400	POWER CORD	1	AWG 12*3*160	
63	3101203100	CLAMP POWER CORD	1	DA-6N	
64	7122401011	SCREW TAPTITE	1	T1 TES 4*10	
65	3108505801	SEAL CONTROL BOX	1	F-PE 210*160*T2	
66	3105000100	SPACER LOCKING	4	DABS-8R RMOCON	
67	3104303100	DEICER PCB ASS'Y	1	DWB-180CH-R	
68	3102708211	HARNESS SELECTOR	1	DWB-180CH-R MYONG-HWA	
69	3102708151	HARNESS LAMP	1	DWB-180CH-R H/P	
70	3102708450	HARNESS DEICER	1	DWB-180CH-R H/P	
71	3102708321	HARNESS SWING MTR(C)	1	DWB-180CH-R H/P	
72	3102708100	HARNESS THERMOSTAT 1	1	UL 1015-14	
73	3102708200	HARNESS S/W ROTARY	1	UL 1015-18	
74	3102708301	HARNESS SWING MOTOR	1	UL 1015 22AWG	
75	3103600400	LAMP HEATER	1	BN-6(COLOR: RED)	
76	3108912700	TERMINAL BLOCK	1	DA-TB1 DONG-A	
77	3103541810	LABEL SPEC	1	DWA-181CH,ESWA181HNKX	
78	3103905920	MANUAL OWNER'S	1	PAPER JAKA H/P	

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■ DWA-186CH PARTS LIST

No.	CODE	COMPONENTS	Q'TY	SPECIFICATION	REMARK
1	3100066241	ASS'Y PAN BASE	1	DWA-181CH LIQUID-INJ H/P	
2	3106003110	COMP BOLT	3	M8*L46.5(OD 10)	
3	3100002900	ASS'Y SEAL CAP DRAIN	1	SEAL C/DRAIN ASSY	
4	3106600910	SCROLL LOWER	1	EPS H/P	
5	3106700400	CAM	1	POM	
6	3104600110	RING VENT	1	NBR P6	
7	3101700300	LEVER VENT	1	PP(LG, H-540)	
8	3100066540	ASS'Y EVAPORATOR	1	DWA-186CH 3R-2C H/P 1.4	
9	3100074050	AS PIPE EVA OUT	1	DWA-186CH 3R-3C	
10	3100074101	AS PIPE EVA IN	1	DWB-180CH-R, H/P	
11	3100073050	AS PIPE CAPILLARY	1	DWA-186CH, ID1.2*900*3	
12	3100073910	AS PIPE 4-WAY	1	DWA-181CH H/P	
13	3106600810	SCROLL UPPER	1	EPS H/P	
14	3100091720	COMPRESSOR	1	RCA180H001 INJ+HP	
15	7400208412	WASHER PLAIN	3	ID 8.4 * OD 26 * T1.6	
16	7392800011	NUT HEX	3	M8*P1.25 MFZN	
17		GROMMET	3	EPDM	COMP ACCESSORY PART
18		GASKET	1	SILICON	COMP ACCESSORY PART
19		COVER TERMINAL	1		COMP ACCESSORY PART
20	3112709700	HARNESS COMP1	1	#14 AWG+#22 AWG UL1015	
21	3107000500	FAN CLIP	2	SK-5	
22	3101802800	FAN BLOWER	1	ABS(ABS-730)	
23	3104202301	PANEL HOUSING	1	SGCC T1.0 DWB-180C	
24	7112401211	SCREW TAPPING	3	T1 TRS 4*12 MFZN	
25	3101406502	COVER SCROLL	1	SGCC T0.6	
26	3101406601	COVER SIDE	1	SGCC T0.6	
27	3108005670	MOTOR FAN	1	A2941GA011(D.M.I)	
28	3100701500	BUSHING GUIDE	1	NBR	
29	7S432X5121	SPECIAL SCREW	4	TT3 HEX 5X12 STAR MFZN	
30	3110096200	ASS'Y COVER ORIFICE	1	DWB-180C-R	
31	3103800500	LOCK WIRE-STANDOFF	2	DAWS 116	
32	3101802900	FAN PROPELLER	1	ABS+GF20% (PIE 8.0)	
33	3100058250	ASS'Y CABINET WL	1	DWB-184C-R	
34	3108505301	SEAL CABINET TOP(F)	1	F-US+660*T5*50	
35	3108505360	SEAL CABINET TOP(R)	1	F-US+660*T5*110	
36	3108505501	SEAL CABINET SIDE(R)	1	F-US+130*T10*370	
37	3108505401	SEAL CABINET SIDE(L)	1	F-US+200*T10*370	
38	3108505600	SEAL COND TOP	1	F-US+70*T5*560	
39	3100066321	ASS'Y CONDENSER	1	DWA-181/186CH 3R-2C H/P FLAT, 1.8	
40	3100070811	AS PIPE COND IN	1	DWB-180CH-R H/P	
41	3100070950	AS PIPE COND OUT	1	DWA-186CH	
	3100070930	AS PIPE COND OUT	1	DWA-186CH	
42	3100079400	AS SOLENOID COIL	1	DWB-180CH-R	

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No.	CODE	COMPONENTS	Q'TY	SPECIFICATION	REMARK
43	3100074650	AS PIPE DISCHARGE	1	DWA-186CH	
44	3100074550	AS PIPE SUCTION	1	DWA-186CH	
45	3100067950	ASS'Y GRILLE FRONT	1	DWA-186CH, MECHANICAL TYPE, H/P	
46	3112201400	FRAME GRILLE	1	HIPS(WH1302A), MECHANICAL TYPE	
47	3112405800	GRILLE	1	HIPS(WH1302A)	
48	3118401400	SEAL FRAME LEFT	1	F-PE, 208*45*12	
	3118401500	SEAL FRAME BOTTOM	1	F-PE, 172*35*7, 172*20*5	
	3118401600	SEAL FRAME RIGHT	1	F-PE, 275*46*8, 275*20*8	
	3118401700	SEAL FRAME UPPER	1	F-PE, 185*40*8, 185*12*8	
49	3116502000	BLADE VERTICAL	1	HIPS(WH1302A)	
50	3116501900	BLADE HORIZENTAL	1	PP	
51	3111902500	FILTER	1	HIPS+MESH	
52	7112401211	SCREW TAPPING	2	T1 TRS 4*12 MFZN	
53	3111602300	DECO FRONT	1	DWA-186CH,GOLD	
54	3100061700	ASS'Y KNOB	1	ABS ASS'Y	
55	3100509221	BOX CONTROL	1	SGCC T0.8 HEAT/PUMP TYPE	
56	5S10405110	SWITCH ROTARY	1	SRB 417-2D D/S	
57	7001400611	SCREW MACHINE	2	PAN 4X6 MFZN	
58	5SM0101910	THERMOSTAT	1	BU-A224 DAESUNG	
59	7001400611	SCREW MACHINE	2	PAN 4X6 MFZN	
60	3966031000	SWING MOTOR	1	200/220V 50/60HZ(DS-090R)	
61	7112400811	SCREW TAPPING	2	T1 TRS 4*8 MFZN	
62	3109504900	CAPACITOR	1	7.5+30μF 400VAC D63(SH)	
63	3101200600	CLAMP CAPACITOR	1	SECC, T1.0 OD 50	
64	7122401011	SCREW TAPTITE	1	T1 TRS 4*10	
65	3101300400	POWER CORD	1	AWG 12*3*160	
66	3101203100	CLAMP POWER CORD	1	DA-6N	
67	7122401011	SCREW TAPTITE	1	T1 TES 4*10	
68	3108505801	SEAL CONTROL BOX	1	F-PE 210*160*T2	
69	3105000100	SPACER LOCKING	4	DABS-8R RMOCON	
70	3104303100	DEICER PCB ASS'Y	1	DWB-180CH-R	
71	3102708211	HARNESS SELECTOR	1	DWB-180CH-R MYONG-HWA	
72	3102708151	HARNESS LAMP	1	DWB-180CH-R H/P	
73	3102708450	HARNESS DEICER	1	DWB-180CH-R H/P	
74	3102708321	HARNESS SWING MTR(C)	1	DWB-180CH-R H/P	
75	3102708100	HARNESS THERMOSTAT 1	1	UL 1015-14	
76	3102708200	HARNESS S/W ROTARY	1	UL 1015-18	
77	3102708301	HARNESS SWING MOTOR	1	UL 1015 22AWG	
78	3103600400	LAMP HEATER	1	BN-6(COLOR: RED)	
79	3108912700	TERMINAL BLOCK	1	DA-TB1 DONG-A	
80	3113599N00	LABEL SPEC	1	DWA-186CH	
81	3113911000	MANUAL OWNER'S	1	DWA-186,246CH-R,DWB-186,246CH-R	

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■ DWA-240CH-R PARTS LIST

No.	CODE	COMPONENTS	Q'TY	SPECIFICATION	REMARK
1	3100066220	ASS'Y PAN BASE	1	DWB-180CH-R H/P	
2	3106003110	COMP BOLT	3	M8*L46.5(OD 10)	
3	3100002900	ASS'Y SEAL CAP DRAIN	1	SEAL C/DRAIN ASSY	
4	3106600910	SCROLL LOWER	1	EPS H/P	
5	3106700400	CAM	1	POM	
6	3104600110	RING VENT	1	NBR P6	
7	3101700300	LEVER VENT	1	PP(LG, H-540)	
8	3100066510	ASS'Y EVAPORATOR	1	P 1.8, 4R-4C	
9	3100074001	AS PIPE EVA OUT	1	ASSY(C1220T)	
10	3100074101	AS PIPE EVA IN	1	ASSY(C1220T)	
11	3100073010	AS PIPE CAPILLARY	1	ASSY(C1220T)	
12	3100073900	AS PIPE 4-WAY	1	ASSY(C1220T)	
13	3106600810	SCROLL UPPER	1	EPS H/P	
14	3100068300	COMPRESSOR	1	AWG-5524EXN(TECUMSEH)	
15	7400208412	WASHER PLAIN	3	ID 8.4 * OD 26 * T1.6	
16	7392800011	NUT HEX	3	M8*P1.25 MFZN	
17		GROMMET	3	EPDM	COMP ACCESSORY PART
18		GASKET	1	SILICON	COMP ACCESSORY PART
19		COVER TERMINAL	1		COMP ACCESSORY PART
20	3112709700	HARNESS COMP1	1	#14 AWG+#22 AWG UL1015	
21	3107000500	FAN CLIP	2	SK-5	
22	3101802800	FAN BLOWER	1	ABS(ABS-730)	
23	3104202301	PANEL HOUSING	1	SGCC T1.0 DWB-180C	
24	7112401211	SCREW TAPPING	3	T1 TRS 4*12 MFZN	
25	3101406502	COVER SCROLL	1	SGCC T0.6	
26	3101406601	COVER SIDE	1	SGCC T0.6	
27	3108005670	MOTOR FAN	1	A2941GA011(D.M.I)	
28	3100701500	BUSHING GUIDE	1	NBR	
29	7S432X5121	SPECIAL SCREW	4	TT3 HEX 5X12 STAR MFZN	
30	3110096200	ASS'Y COVER ORIFICE	1	DWB-180C-R	
31	3103800500	LOCK WIRE-STANDOFF	2	DAWS 116	
32	3101802900	FAN PROPELLER	1	ABS+GF20% (PIE 8.0)	
33	3100058250	ASS'Y CABINET WL	1	DWB-184C-R	
34	3108505301	SEAL CABINET TOP(F)	1	F-US (660*T5*50)	
	3108505360	SEAL CABINET TOP(R)	1	F-US (660*T5*110)	
35	3108505401	SEAL CABINET SIDE(L)	1	F-US (200*T10*370)	
36	3108505501	SEAL CABINET SIDE(R)	1	F-US (130*T10*370)	
37	3108505600	SEAL COND TOP	1	F-US (70*T5*560)	
38	3100066310	ASS'Y CONDENSER	1	3R-2C(P2.0)	
39	3100070811	AS PIPE COND IN	1	ASSY(C1220T)	

No.	CODE	COMPONENTS	Q'TY	SPECIFICATION	REMARK
40	3100070911	AS PIPE COND OUT	1	ASSY(C1220T)	
41	3100079400	ASS'Y SOLENOID COIL	1	DWB-180CH-R	
42	3100074601	AS PIPE DISCHARGE	1	ASSY(C1220T)	
43	3100074501	AS PIPE SUCTION	1	ASSY(C1220T)	
44	3100067900	ASS'Y GRILLE FRONT	1	DWB-180C-R, MECHANICAL TYPE	
	3100072400	AS SEAL GRILLE FRONT(1)	1	F-PE	
	3100072500	AS SEAL GRILLE FRONT(2)	1	F-PE	
45	3108505230	SEAL GRILLE FRONT(3)	1	ASS'Y	
46	3106502201	BLADE VERTICAL	1	HIPS(HI-450)	
47	3106502100	BLADE HORIZENTAL	1	PP	
48	3101902201	FILTER PRE	1	HIPS+MESH	
49	7112401011	SCREW TAPPING	1	T1 TRS 4*10	
50	3101600800	DECO FRONT	1	PC T0.4	
51	3100509221	BOX CONTROL	1	SGCC T0.8 HEAT/PUMP TYPE	
52	5S10405100	S/W ROTARY	1	SR6B-416-10D, 5 STEP	
53	7112401211	SCREW TAPPING	2	T1 TRS 4*12 MFZN	
53	3111602300	DECO FRONT	1	DWA-186CH,GOLD	
54	5SM0101910	THERMOSTAT	1	BU-A224 DAESUNG	
55	7112401211	SCREW TAPPING	2	T1 TRS 4*12 MFZN	
56	3966031000	SWING MOTOR	1	200/220V 50/60HZ(DS-090R)	
57	7112400811	SCREW TAPPING	2	T1 TRS 4*8 MFZN	
58	3109504500	CAPACITOR	1	7.5+35μF 400VAC D63(SH)	
59	3101201500	CLAMP CAPACITOR	1	SGCC-M-Z22(LG)	
60	7122401011	SCREW TAPTITE	1	T1 TRS 4*10	
61	3101300400	POWER CORD	1	AWG 12*3*160	
62	3101233100	CLAMP POWER CORD	1	DA-6N	
63	7122401011	SCREW TAPTITE	1	T1 TES 4*10	
64	3108505801	SEAL CONTROL BOX	1	F-PE 210*160*T2	
65	3105000100	SPACER LOCKING	4	DABS-8R RMOCON	
66	3104303100	DEICER PCB ASS'Y	1	DWB-180CH-R	
67	3102708211	HARNESS SELECTOR	1	DWB-180CH-R MYONG-HWA	
68	3102708151	HARNESS LAMP	1	DWB-180CH-R H/P	
69	3102708450	HARNESS DEICER	1	DWB-180CH-R H/P	
70	3102708321	HARNESS SWING MTR(C)	1	DWB-180CH-R H/P	
71	3102708100	HARNESS THERMOSTAT 1	1	UL 1015-14	
72	3102708200	HARNESS S/W ROTARY	1	UL 1015-18	
73	3102708301	HARNESS SWING MOTOR	1	UL 1015 22AWG	
74	3103600400	LAMP HEATER	1	BN-6(COLOR: RED)	
75	3103538601	LABEL SPEC	1	DWA-240CH-R(AL-SWAILEM)	
76	3103905900	MANUAL OWNER'S	1	PAPER H/P	

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■ DWA-246CH-R PARTS LIST

No.	CODE	COMPONENTS	Q'TY	SPECIFICATION	REMARK
1	3100066220	ASS'Y PAN BASE	1	DWB-180CH-R H/P	
2	3106003110	COMP BOLT	3	M8*L46.5(OD 10)	
3	3100002900	ASS'Y SEAL CAP DRAIN	1	SEAL C/DRAIN ASSY	
4	3106600910	SCROLL LOWER	1	EPS H/P	
5	3106700400	CAM	1	POM	
6	3104600110	RING VENT	1	NBR P6	
7	3101700300	LEVER VENT	1	PP(LG, H-540)	
8	3100066510	ASS'Y EVAPORATOR	1	P 1.8, 4R-4C	
9	3100074001	AS PIPE EVA OUT	1	ASSY(C1220T)	
10	3100074101	AS PIPE EVA IN	1	ASSY(C1220T)	
11	3100073010	AS PIPE CAPILLARY	1	ASSY(C1220T)	
12	3100073900	AS PIPE 4-WAY	1	ASSY(C1220T)	
13	3106600810	SCROLL UPPER	1	EPS H/P	
14	3100068300	COMPRESSOR	1	AWG-5524EXN(TECUMSEH)	
15	7400208412	WASHER PLAIN	3	ID 8.4 * OD 26 * T1.6	
16	7392800011	NUT HEX	3	M8*P1.25 MFZN	
17		GROMMET	3	EPDM	COMP ACCESSORY PART
18		GASKET	1	SILICON	COMP ACCESSORY PART
19		COVER TERMINAL	1		COMP ACCESSORY PART
20	3112709700	HARNESS COMP1	1	#14 AWG+#22 AWG UL1015	
21	3107000500	FAN CLIP	2	SK-5	
22	3101802800	FAN BLOWER	1	ABS(ABS-730)	
23	3104202301	PANEL HOUSING	1	SGCC T1.0 DWB-180C	
24	7112401211	SCREW TAPPING	3	T1 TRS 4*12 MFZN	
25	3101406502	COVER SCROLL	1	SGCC T0.6	
26	3101406601	COVER SIDE	1	SGCC T0.6	
27	3108005670	MOTOR FAN	1	A2941GA011(D.M.I)	
28	3100701500	BUSHING GUIDE	1	NBR	
29	7S432X5121	SPECIAL SCREW	4	TT3 HEX 5X12 STAR MFZN	
30	3110096200	ASS'Y COVER ORIFICE	1	DWB-180C-R	
31	3103800500	LOCK WIRE-STANDOFF	2	DAWS 116	
32	3101802900	FAN PROPELLER	1	ABS+GF20% (PIE 8.0)	
33	3100058250	ASS'Y CABINET WL	1	DWB-184C-R	
34	3108505301	SEAL CABINET TOP(F)	1	F-US (660*T5*50)	
	3108505360	SEAL CABINET TOP(R)	1	F-US (660*T5*110)	
35	3108505401	SEAL CABINET SIDE(L)	1	F-US (200*T10*370)	
36	3108505501	SEAL CABINET SIDE(R)	1	F-US (130*T10*370)	
37	3108505600	SEAL COND TOP	1	F-US (70*T5*560)	
38	3100066310	ASS'Y CONDENSER	1	3R-2C(P2.0)	
39	3100070811	AS PIPE COND IN	1	ASSY(C1220T)	
40	3100070911	AS PIPE COND OUT	1	ASSY(C1220T)	
41	3100079400	ASS'Y SOLENOID COIL	1	DWB-180CH-R	

No.	CODE	COMPONENTS	Q'TY	SPECIFICATION	REMARK
42	3100074601	AS PIPE DISCHARGE	1	ASSY(C1220T)	
43	3100074501	AS PIPE SUCTION	1	ASSY(C1220T)	
44	3100067950	ASS'Y GRILLE FRONT	1	DWA-186CH, MECHANICAL TYPE, H/P	
	3112201400	FRAME GRILLE	1	HIPS(WH1302A), MECHANICAL TYPE	
	3112405800	GRILLE	1	HIPS(WH1302A)	
45	3118401400	SEAL FRAME LEFT	1	F-PE, 208*45*12	
46	3118401500	SEAL FRAME BOTTOM	1	F-PE, 172*35*7, 172*20*5	
47	3118401600	SEAL FRAME RIGHT	1	F-PE, 275*46*8, 275*20*8	
48	3118401700	SEAL FRAME UPPER	1	F-PE, 185*40*8, 185*12*8	
49	3116502000	BLADE VERTICAL	1	HIPS(WH1302A)	
50	3116501900	BLADE HORIZENTAL	1	PP	
51	3111902500	FILTER	1	HIPS+MESH	
52	7112401211	SCREW TAPPING	2	T1 TRS 4*12 MFZN	
53	3111602300	DECO FRONT	1	DWA-186CH,GOLD	
53	3100061700	ASS'Y KNOB	1	ABS ASS'Y	
54	3100509221	BOX CONTROL	1	SGCC T0.8 HEAT/PUMP TYPE	
55	5S10405100	S/W ROTARY	1	SR6B-416-10D, 5 STEP	
56	7112401211	SCREW TAPPING	2	T1 TRS 4*12 MFZN	
57	3111602300	DECO FRONT	1	DWA-186CH,GOLD	
58	5SM0101910	THERMOSTAT	1	BU-A224 DAESUNG	
59	7112401211	SCREW TAPPING	2	T1 TRS 4*12 MFZN	
60	3966031000	SWING MOTOR	1	200/220V 50/60HZ(DS-090R)	
61	7112400811	SCREW TAPPING	2	T1 TRS 4*8 MFZN	
62	3109504500	CAPACITOR	1	7.5+35μF 400VAC D63(SH)	
63	3101201500	CLAMP CAPACITOR	1	SGCC-M-Z22(LG)	
64	7122401011	SCREW TAPTITE	1	T1 TRS 4*10	
65	3101300400	POWER CORD	1	AWG 12*3*160	
66	3101233100	CLAMP POWER CORD	1	DA-6N	
67	7122401011	SCREW TAPTITE	1	T1 TES 4*10	
68	3108505801	SEAL CONTROL BOX	1	F-PE 210*160*T2	
69	3105000100	SPACER LOCKING	4	DABS-8R RMOCON	
70	3104303100	DEICER PCB ASS'Y	1	DWB-180CH-R	
71	3102708211	HARNESS SELECTOR	1	DWB-180CH-R MYONG-HWA	
72	3102708151	HARNESS LAMP	1	DWB-180CH-R H/P	
73	3102708450	HARNESS DEICER	1	DWB-180CH-R H/P	
74	3102708321	HARNESS SWING MTR(C)	1	DWB-180CH-R H/P	
75	3102708100	HARNESS THERMOSTAT 1	1	UL 1015-14	
76	3102708200	HARNESS S/W ROTARY	1	UL 1015-18	
77	3102708301	HARNESS SWING MOTOR	1	UL 1015 22AWG	
78	3103600400	LAMP HEATER	1	BN-6(COLOR: RED)	
79	3113599C00	LABEL SPEC	1	DWA-246CH-R	
80	3113911000	MANUAL OWNER'S	1	DWA-186,246CH-R,DWB-186,246CH-R	

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■ DWB-180CH-R,DWB-240CH-R PARTS LIST

No.	CODE	COMPONENTS	Q'TY	SPECIFICATION	REMARK
1	3100066221	ASS'Y PAN BASE	1	DWB-180CH-R H/P	
2	3106002200	COMP BOLT	3	M8*L41.6(OD 10)	
3	3100002900	ASS'Y SEAL CAP DRAIN	1	SEAL C/DRAIN ASSY	
4	3106600910	SCROLL LOWER	1	EPS H/P	
5	3106700400	CAM	1	POM	
6	3104600110	RING VENT	1	NBR P6	
7	3101700300	LEVER VENT	1	PP(LG, H-540)	
8	3100066510	ASS'Y EVAPORATOR	1	P 1.8, 4R-4C	
9	3100074001	AS PIPE EVA OUT	1	ASSY(C1220T)	
10	3100074101	AS PIPE EVA IN	1	ASSY(C1220T)	
11	3100073001	AS PIPE CAPILLARY	1	DWB-180CH-R H/P	DWB-180CH-R
	3100073010	AS PIPE CAPILLARY	1	DWB-240CH-R H/P	DWB-240CH-R
12	3100073900	AS PIPE 4-WAY	1	ASSY(C1220T)	
13	3106600810	SCROLL UPPER	1	EPS H/P	
14	3117103600	COMPRESSOR	1	H2EB243ABKC(BRISTOL)	DWB-180CH-R
	3117103700	COMPRESSOR	1	H2EB283ABKC(BRISTOL)	DWB-240CH-R
15	7400208412	WASHER PLAIN	3	ID 8.4 * OD 26 * T1.6	
16	7392800011	NUT HEX	3	M8*P1.25 MFZN	
17		GROMMET	3	EPDM	COMP ACCESSORY PART
18		GASKET	1	SILICON	COMP ACCESSORY PART
19		COVER TERMINAL	1		COMP ACCESSORY PART
20	3112709700	HARNESS COMP1	1	#14 AWG+#22 AWG UL1015	
21	3107000500	FAN CLIP	2	SK-5	
22	3101802800	FAN BLOWER	1	ABS(ABS-730)	
23	3104202301	PANEL HOUSING	1	SGCC T1.0 DWB-180C	
24	7112401211	SCREW TAPPING	3	T1 TRS 4*12 MFZN	
25	3101406502	COVER SCROLL	1	SGCC T0.6	
26	3101406601	COVER SIDE	1	SGCC T0.6	
27	3108005411	MOTOR FAN	1	A2938CA010(DMI)	DWB-180CH-R
	3108005511	MOTOR FAN	1	A2945CA012(DMI)	DWB-240CH-R
28	3100701500	BUSHING GUIDE	1	NBR	
29	7S432X5121	SPECIAL SCREW	4	TT3 HEX 5X12 STAR MFZN	
30	3110096200	ASS'Y COVER ORIFICE	1	DWB-180C-R	
31	3103800500	LOCK WIRE-STANDOFF	2	DAWS 116	
32	3101802900	FAN PROPELLER	1	ABS+GF20% (PIE 8.0)	
33	3100058250	ASS'Y CABINET WL	1	DWB-184C-R	
34	3108505301	SEAL CABINET TOP(F)	1	F-US (660*T5*50)	
	3108505360	SEAL CABINET TOP(R)	1	F-US (660*T5*110)	
35	3108505401	SEAL CABINET SIDE(L)	1	F-US (200*T10*370)	
36	3108505501	SEAL CABINET SIDE(R)	1	F-US (130*T10*370)	
37	3108505600	SEAL COND TOP	1	F-US (70*T5*560)	
38	3100066310	ASS'Y CONDENSER	1	3R-2C(P2.0)	
39	3100070811	AS PIPE COND IN	1	ASSY(C1220T)	

No.	CODE	COMPONENTS	Q'TY	SPECIFICATION	REMARK
40	3100070911	AS PIPE COND OUT	1	ASSY(C1220T)	
41	3100079400	ASS'Y SOLENOID COIL	1	DWB-180CH-R	
42	3100074601	AS PIPE DISCHARGE	1	ASSY(C1220T)	
43	3100074501	AS PIPE SUCTION	1	ASSY(C1220T)	
44	3100067900	ASS'Y GRILLE FRONT	1	DWB-180C-R, MECHANICAL TYPE	
	3100072400	AS SEAL GRILLE FRONT(1)	1	F-PE	
	3100072500	AS SEAL GRILLE FRONT(2)	1	F-PE	
45	3108505230	SEAL GRILLE FRONT(3)	1	ASS'Y	
46	3106502201	BLADE VERTICAL	1	HIPS(HI-450)	
47	3106502100	BLADE HORIZENTAL	1	PP	
48	3101902201	FILTER PRE	1	HIPS+MESH	
49	7112401011	SCREW TAPPING	1	T1 TRS 4*10	
50	3101600800	DECO FRONT	1	PC T0.4	
51	3100509221	BOX CONTROL	1	SGCC T0.8 HEAT/PUMP TYPE	
52	5S10405110	S/W ROTARY	1	SRB 417-2D D/S	
53	7112401211	SCREW TAPPING	2	T1 TRS 4*12 MFZN	
53	3111602300	DECO FRONT	1	DWA-186CH,GOLD	
54	5SM0101910	THERMOSTAT	1	BU-A224 DAESUNG	
55	7112401211	SCREW TAPPING	2	T1 TRS 4*12 MFZN	
56	3966031000	SWING MOTOR	1	200/220V 50/60HZ(DS-090R)	
57	7112400811	SCREW TAPPING	2	T1 TRS 4*8 MFZN	
58	3109504500	CAPACITOR	1	7.5+35μF 400VAC D63(SH)	DWB-180CH-R
	3116904400	CAPACITOR	1	7.5+40μF 400VAC D63(SH)	DWB-240CH-R
59	3101201500	CLAMP CAPACITOR	1	SGCC-M-Z22(LG)	
60	7122401011	SCREW TAPTITE	1	T1 TRS 4*10	
61	3101300400	POWER CORD	1	AWG 12*3*160	
62	3101233100	CLAMP POWER CORD	1	DA-6N	
63	7122401011	SCREW TAPTITE	1	T1 TES 4*10	
64	3108505801	SEAL CONTROL BOX	1	F-PE 210*160*T2	
65	3105000100	SPACER LOCKING	4	DABS-8R RMOCON	
66	3104303100	DEICER PCB ASS'Y	1	DWB-180CH-R	
67	3102708211	HARNESS SELECTOR	1	DWB-180CH-R MYONG-HWA	
68	3102708151	HARNESS LAMP	1	DWB-180CH-R H/P	
69	3102708450	HARNESS DEICER	1	DWB-180CH-R H/P	
70	3102708321	HARNESS SWING MTR(C)	1	DWB-180CH-R H/P	
71	3102708100	HARNESS THERMOSTAT 1	1	UL 1015-14	
72	3102708200	HARNESS S/W ROTARY	1	UL 1015-18	
73	3102708301	HARNESS SWING MOTOR	1	UL 1015 22AWG	
74	3103600400	LAMP HEATER	1	BN-6(COLOR: RED)	
75	3103534100	LABEL SPEC	1	DWB-180CH-R H/P	DWB-180CH-R
	3103538401	LABEL SPEC	1	DWB-240CH-R H/P	DWB-240CH-R
76	3103905910	MANUAL OWNER'S	1	PAPER H/P	

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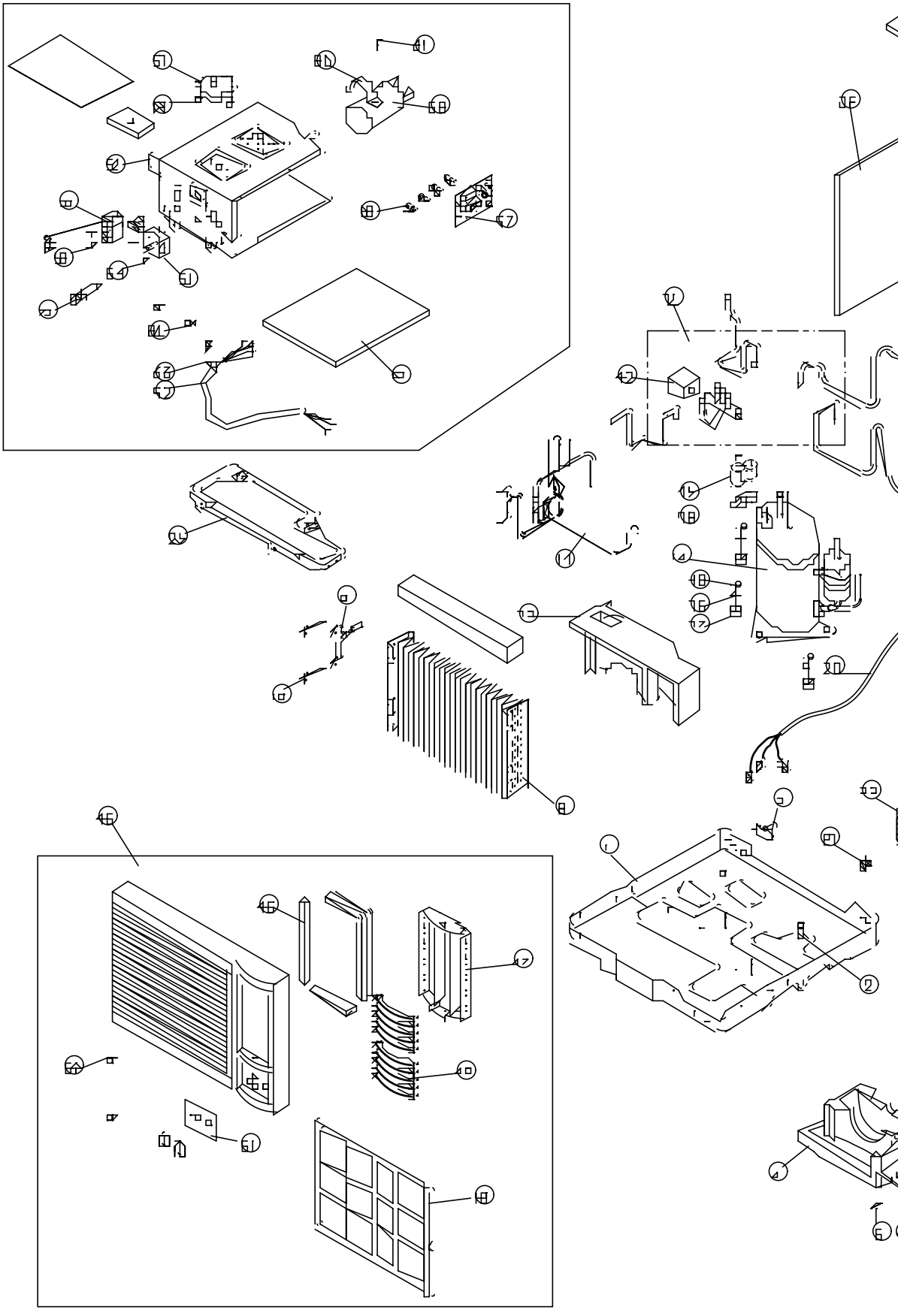
■ DEICER PCB ASS'Y (3104303100)

CODE	COMPONENTS	Q'TY	SPECIFICATION	REMARK
3108803500	PIN	3	GP881206-2(250)	
D15G561K– –	VARISTOR	1	15G1561K	
3108806100	WAFER	1	SMW250-03	SENSOR
DZN4004A– –	DIODE	4	1N4004 TAPE	
DZN4148FBT	DIODE	2	1N4148 TAPE	
CCXE1H103M	C-CERA	4	103Z, 50VDC	
CCXE1H104M	C-CERA	2	104Z, 50VDC	
CEXE1V108C	C-ELEC	1	1000μF 35V SD	
CEXE1C107C	C-ELEC	1	100μF 16V SD	
RN-4K1272F	RESISTOR	1	1/4W-12.7KF	
RD-4K103J-	RESISTOR	1	1/4W-10KJ	
RD-4K102J-	RESISTOR	2	1/4W-1KJ	
RD-4K331J-	RESISTOR	1	1/4W-330J	
1K1A78S05P	IC REGULATOR	1	KIA78S05P	DC5V
3104303200	DEICER PCB	1	86X55X1.6T	
5EPW035000	TRANS PCB	1	MOUNT	
5SC0102100	RELAY	1	UT205-12SC	
14HLP12C67	IC MICOM	1	PIC12C671	8P
TZTC3198Y	TR	1	KRC3198Y	

• **DWA-181CH**



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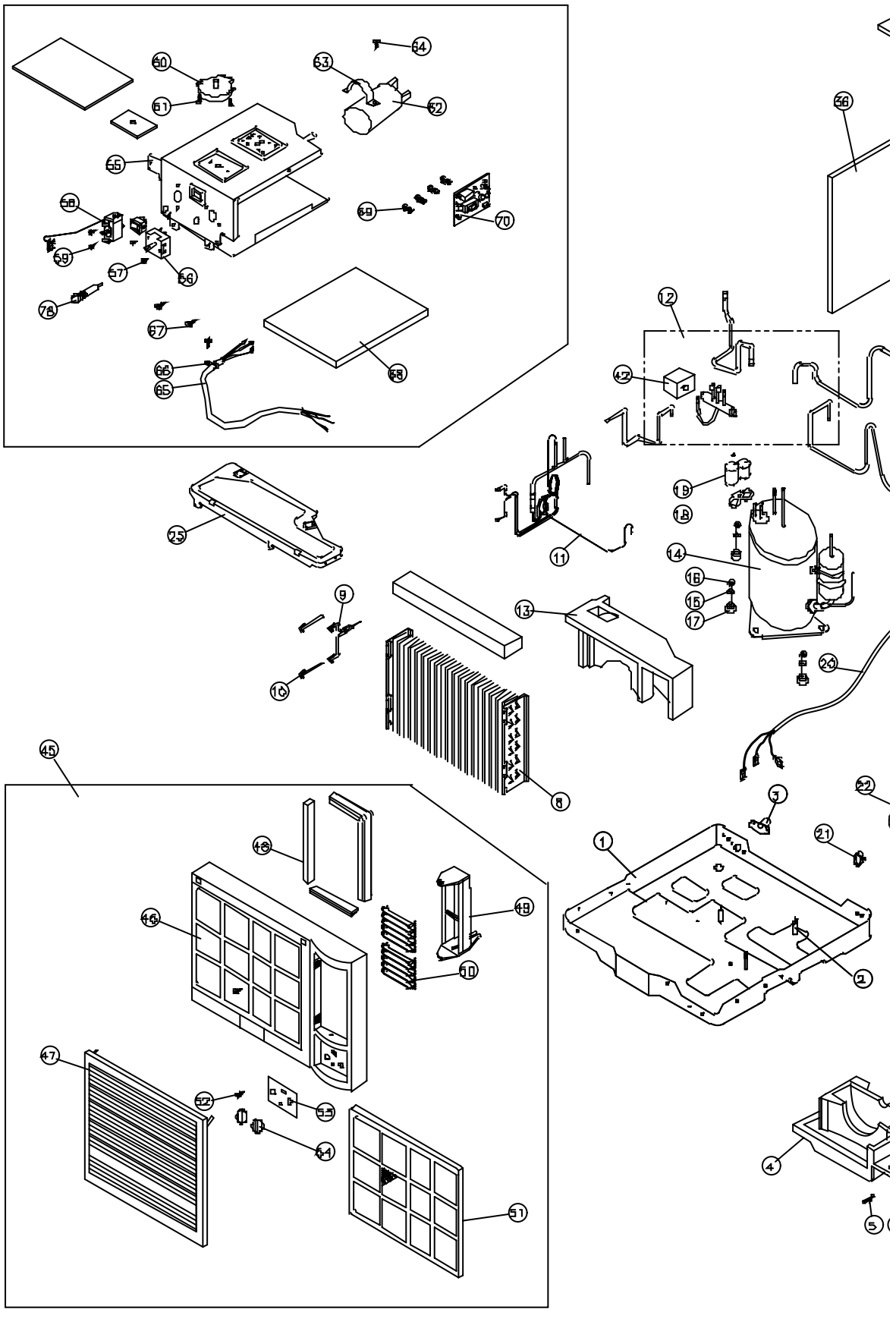
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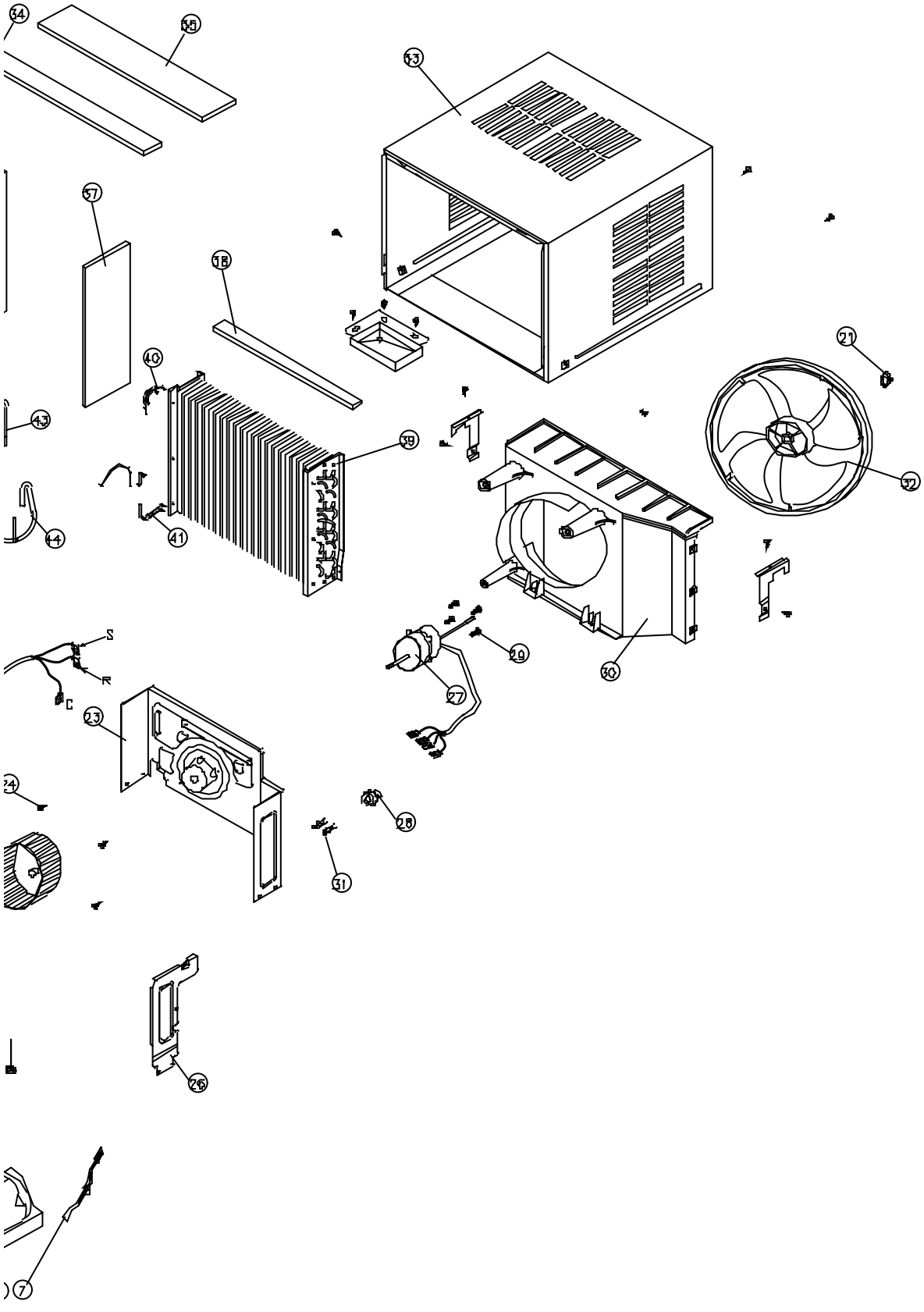
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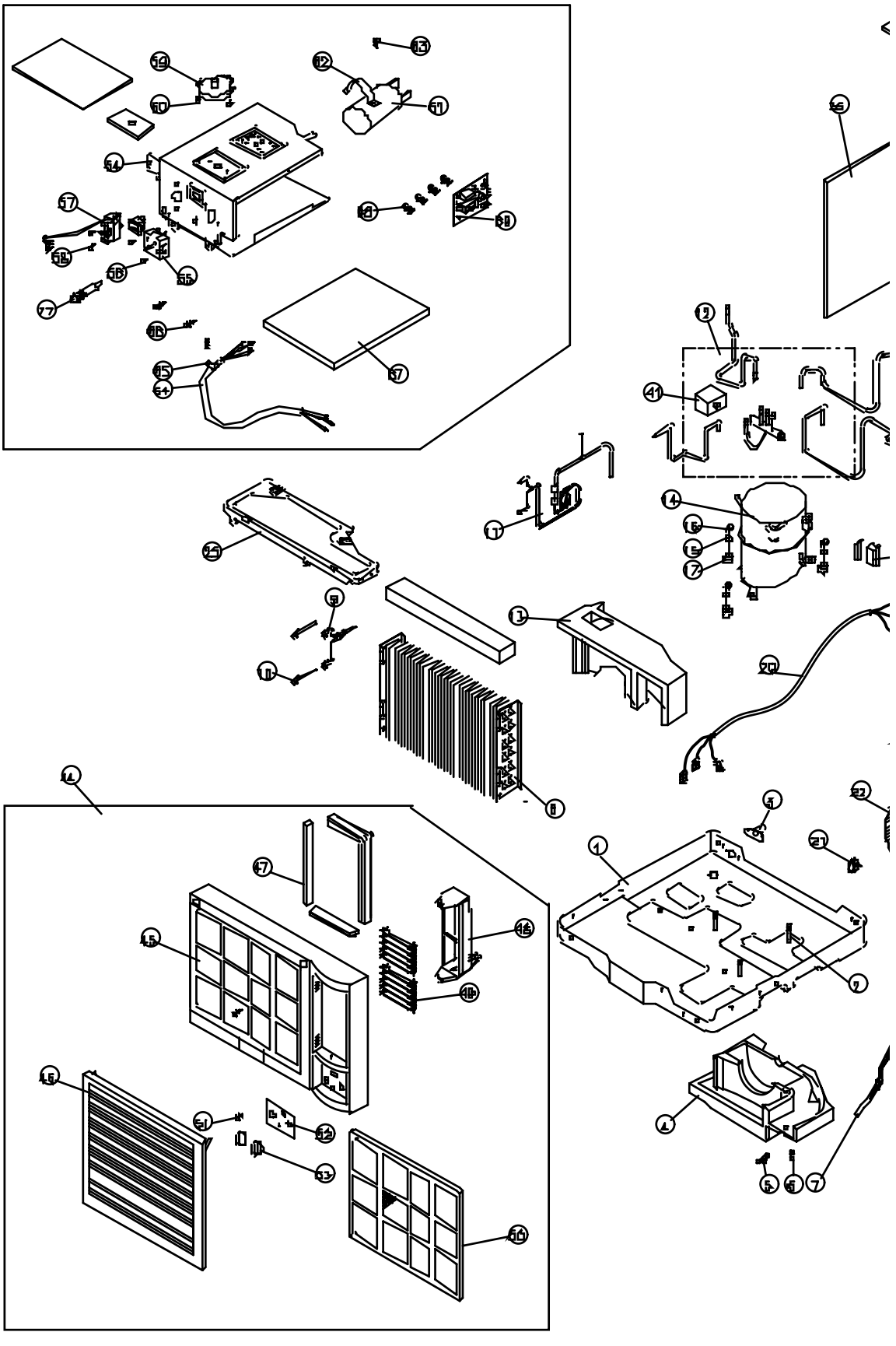
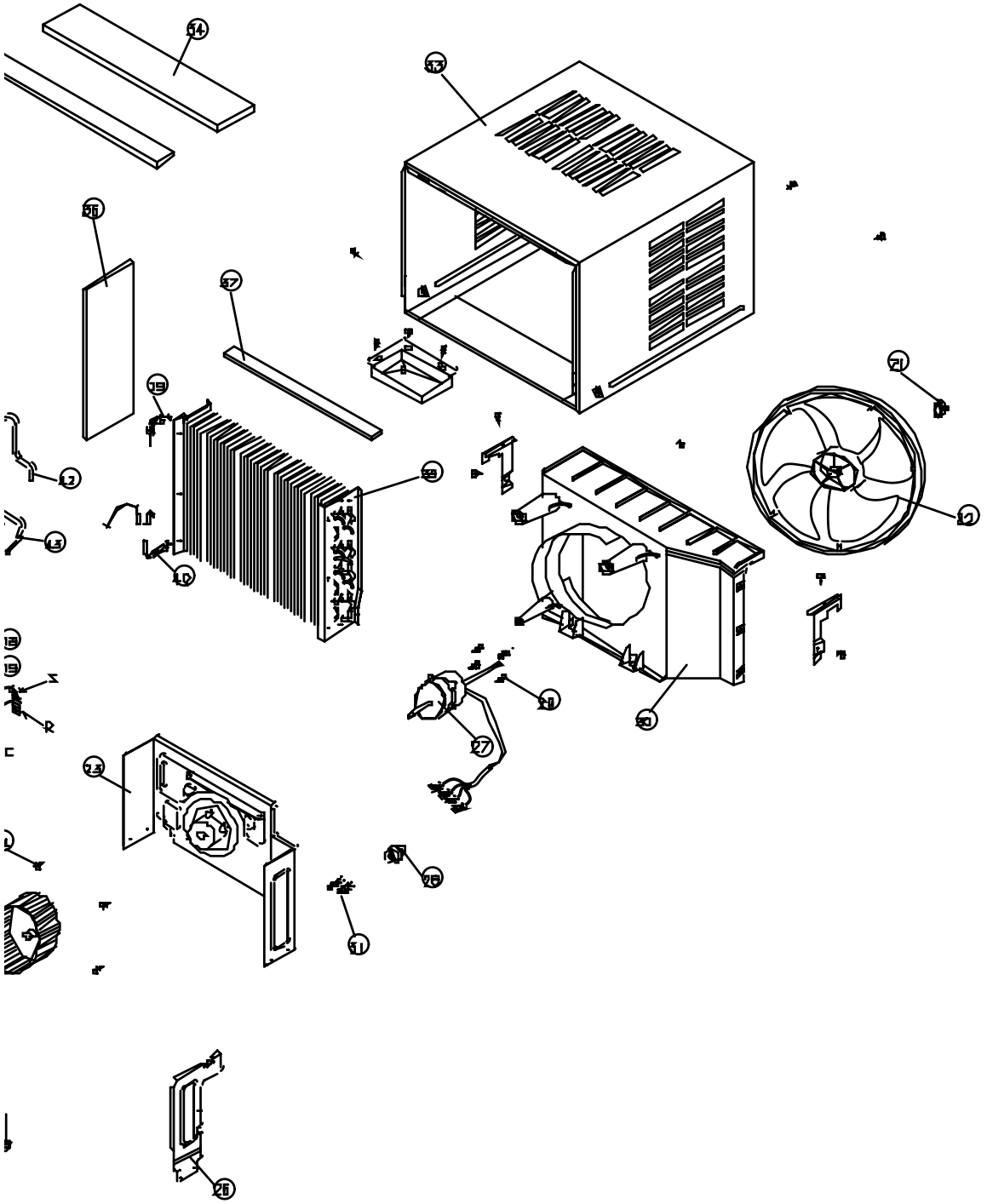
• **DWA-246CH-R**

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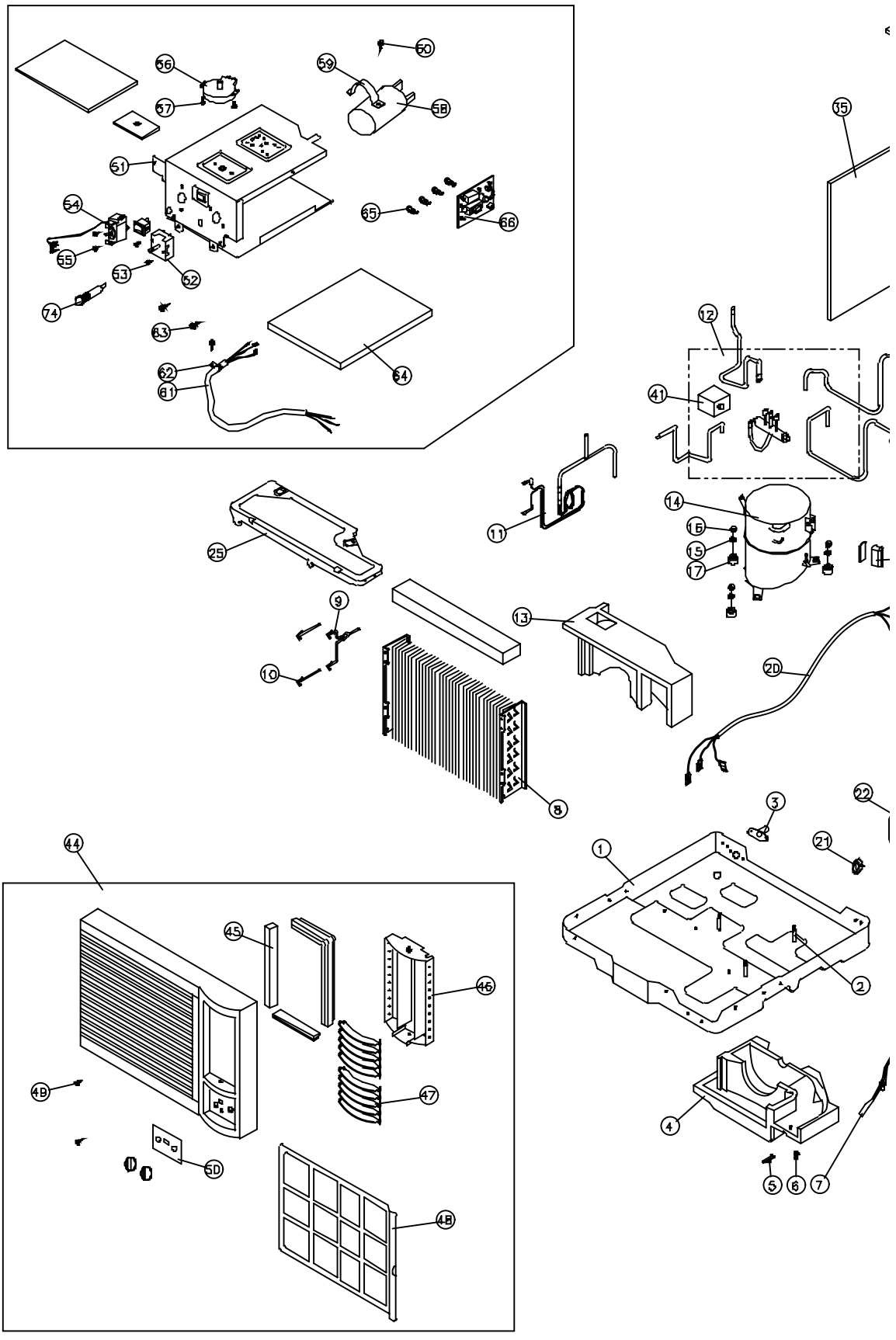
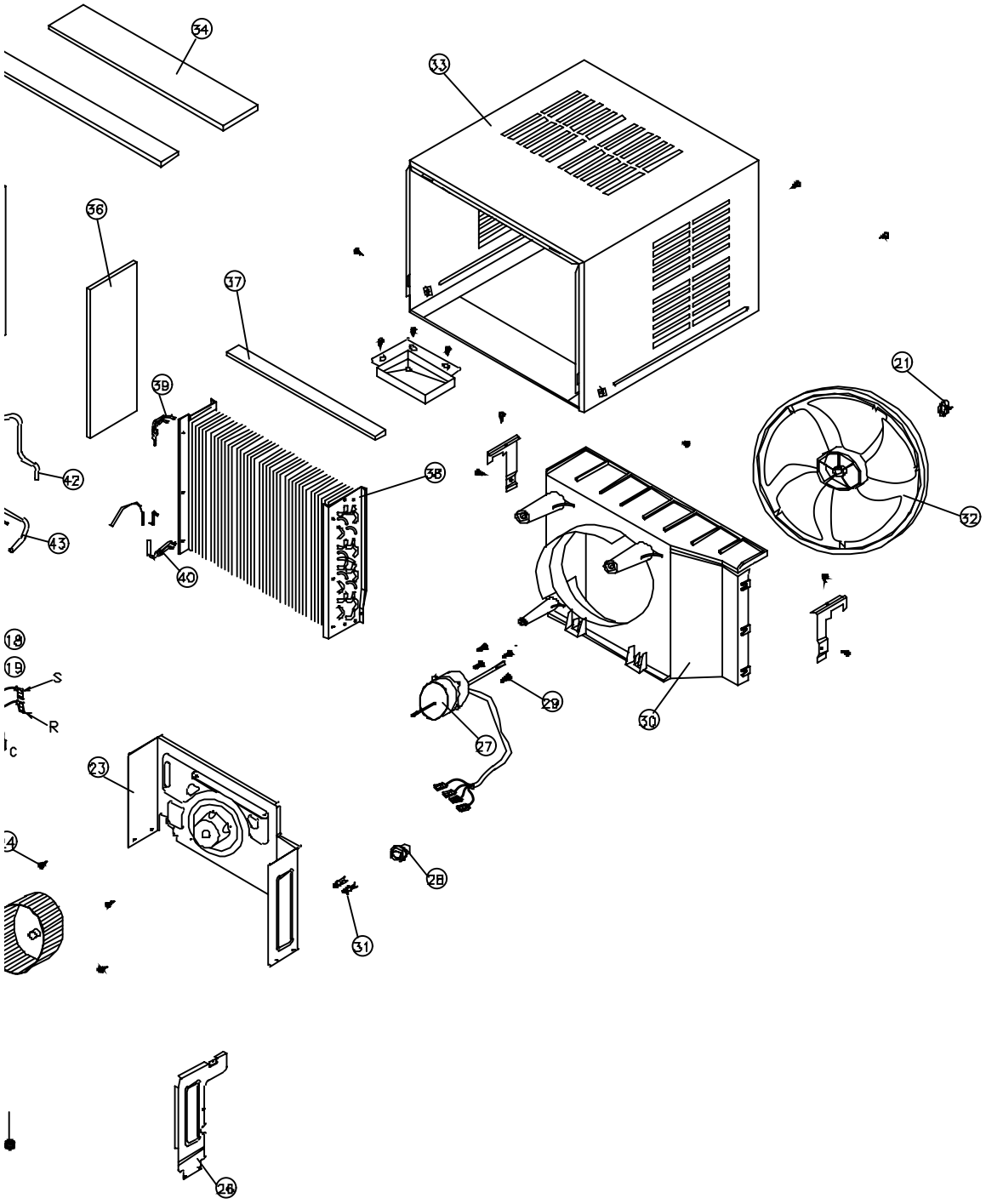
• **DWB-180CH-R / DWB-240CH-R / DWA-240CH-R**

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